



**Qlik Data Catalyst API Specification**  
**Product Version: September 2019**

**Release Date: September 30, 2019**

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## Introduction

Swagger API framework has been implemented to assist developers and clients in the design, build, documentation and execution of Podium's RESTful Web services. An advantage of Swagger over traditional API clients is that it specifies the URL, method, and parameters saving users the work of having to type out signatures and exact syntax. Swagger generates Curl command, Request URL, Response Body, Response Code and Response Header.

While Swagger provides an easier and more intuitive API documentation framework there are limitations in how user documentation can be presented (for example, tables are not currently allowed) and is recommended that a user does not to click into "Example Value" on the right of the Swagger interface and -->delete the JSON example if it populates into payload field. This example JSON includes more properties/attributes than are required. This reference guide is intended to address those gaps. Each API entry in this document, provides guidance for using Swagger's embedded API client based on feedback around usability for specific calls. In addition, documentation is provided to assist users to execute calls using a traditional HTTP client (such as Postman).

API calls are accessed from the Podium UI and they do not require re-authentication.

Action	Name	Source Type	Communication Protocol	Base Directory	Default Level
More ▾	flat_1128	FILE	LOCALFILE	/tmp/podium/8080	MANAGED
More ▾	copyEngineRule	FILE	LOCALFILE	/tmp/podium/8080	MANAGED
More ▾	podium_core_mpollard_20181128	JDBC_SOURCE	JDBC	/tmp/podium/8080	MANAGED
More ▾	Wrongclassname	JDBC_SOURCE	JDBC	/tmp/podium/8080	MANAGED
More ▾	jsonstuff	JSON	LOCALFILE	/tmp/podium/8080	MANAGED
More ▾	podium_core_api	JDBC_SOURCE	JDBC	/tmp/podium/8080	MANAGED

When the API framework opens, select specific task controllers to view calls within that section:

**Qlik Data Catalyst**  
Qlik Data Catalyst's API controller

- entity-controller : Entity Controller
- export-controller : Export Controller
- field-controller : Field Controller
- group-controller : Group Controller**
- import-controller : Import Controller
- metadata-definitions-controller : Metadata Definitions Controller
- profile-statistics-controller : Profile Statistics Controller
- property-definition-controller : Property Definition Controller
- publish-controller : Publish Controller
- source-conn-controller : Source Conn Controller
- source-controller : Source Controller

GET /security/group/v1/groupsByUser  
Get groups accessible to logged in User

This document describes customer-supported APIs grouped alphabetically by following subject areas as they appear in Swagger:

- Entity Controller
- Export Controller
- Field Controller



- Group Controller
- Import Controller
- Lineage Controller
- Metadata Definitions Controller
- Profile Statistics Controller
- Property Definition Controller
- Publish Controller
- Source Connection Controller
- Source Controller
- Source Hierarchy Controller
- Target Controller (lists predefined Publish targets)
- Transformation Controller

Podium supports the most common API operations including GET, POST, and PUT

**API URL format:** /<subjectArea>/<v1>/<operationType>/<param1>/<param2>

Note that all API calls are secured and might throw an access denied exception if the user is not authorized to perform a certain operation.

## Encryption of Strings and Passwords

Run the Encryption Utility to encrypt or encode any strings such as username and passwords.

When encrypting strings, user should:

ssh into the QDC/podium environment + enter password

cd to podium directory (ex. /usr/local/podium)

enter the following at the command line:

```
#java -cp podium.jar:. com.nvs.core.utils.PodiumEncrUtil
```

(note space after the '.' dot and before 'com') and follow utility instructions.

If accessing the encryption utility from unzipped build in a desktop or local folder:

cd into lib folder and access the appropriate distribution-specific jar in the podium lib folder.

**example:** \$ java -cp podium\_cloudera-cdh5.jar:. com.nvs.core.utils.PodiumEncrUtil

```
*****
***** WELCOME TO PODIUM *****
*****

-----: Menu Options :-----
1. Encrypt a String
2. Encrypt and Encode a String
3. Exit
Enter your choice of menu number:
```

User will be instructed to enter choice of menu number, either a "1" to Encrypt a String or a "2" to Encrypt and Encode a String or "3" to Exit the utility.

The utility will return an encrypted or encrypted/encoded string (ex. #0{QVoDY0TvMVdjBbivGGDzzw==}) that can be entered as an encrypted password value in core\_env.properties or an encrypted/encoded password for Spring Login authentication.

Examples of encryptable values:

```
jdbc.password
loadingdock.username
loadingdock.password
archive.username
archive.password
receiving.username
receiving.password
shippingdock.username
shippingdock.password
distribution.username
distribution.password
interactive.query.data.username
interactive.query.data.password
```

## Workaround to obtain encoded password for API j\_spring\_security\_check if using cURL or WGET to authenticate:

This workaround may be useful if the encode/encrypt utility is not available.

Turn Development tools on, enter credentials and login to application through the UI.

On the Network tab in Development tools, search for "j\_spring\_security\_check"

Right-click on the call, select option "copy as cURL(cmd)"

From the copied cURL command, replace the encoded password with the encrypted password and execute cURL command (with encoded password):

The screenshot shows the Chrome DevTools Network tab. The 'Network' tab is selected, and a request named 'j\_spring\_security\_check' is selected. The 'Headers' sub-tab is active, showing the request headers. The 'Form Data' section is expanded, showing the 'j\_password' and 'j\_username' fields. The 'j\_password' field contains an encoded value: '#0{BKWujXAJ1nE6txneNeHdXw==}'. A red box highlights the 'view URL encoded' link, and a mouse cursor is pointing at it.

### example (before):

```
curl "http://name-podium.corp.podiumdata.com:8081/podium-release/j_spring_security_check" -H
"Connection: keep-alive" -H "Cache-Control: max-age=0" -H "Origin: http://name-
podium.corp.podiumdata.com:8081" -H "Upgrade-Insecure-Requests: 1" -H "Content-Type: application/x-
www-form-urlencoded" -H "User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36" -H "Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8" -H "Referer:
http://name-podium.corp.podiumdata.com:8081/podium-release/login" -H "Accept-Encoding: gzip, deflate"
-H "Accept-Language: en-US,en;q=0.9" -H "Cookie: JSESSIONID=0A0A4FFCB5B0C8F0412E18647128C056;
_ga=GA1.2.1926510634.1537964398; hubspotutk=43934341540867787139a930e852291b; __unam=dbe679-
16615d2498a-393535a4-7;
_hstc=199238193.43934341540867787139a930e852291b.1537964416205.1538931476996.1540978264141.4" --data
"j_password=#0{BKWujXAJ1nE6txneNeHdXw==}&j_username=podium" --compressed
```

### example (after):

```
curl "http://name-podium.corp.podiumdata.com:8081/podium-release/j_spring_security_check" -H
"Connection: keep-alive" -H "Cache-Control: max-age=0" -H "Origin: http://name-
podium.corp.podiumdata.com:8081" -H "Upgrade-Insecure-Requests: 1" -H "Content-Type: application/x-
www-form-urlencoded" -H "User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36" -H "Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8" -H "Referer:
http://name-podium.corp.podiumdata.com:8081/podium-release/login" -H "Accept-Encoding: gzip, deflate"
-H "Accept-Language: en-US,en;q=0.9" -H "Cookie: JSESSIONID=0A0A4FFCB5B0C8F0412E18647128C056;
_ga=GA1.2.1926510634.1537964398; hubspotutk=43934341540867787139a930e852291b; __unam=dbe679-
16615d2498a-393535a4-7;
_hstc=199238193.43934341540867787139a930e852291b.1537964416205.1538931476996.1540978264141.4" --data
"j_password=%230%7BBKWujXAJ1nE6txneNeHdXw%3D%3D%7D&j_username=podium" --compressed
```

## URL Encoding for Parameters and URLs

Parameter values that include non-ASCII characters must be encoded in the API URL in order to pass a property value.

- Alphanumeric characters 'a' through 'z', 'A' through 'Z', and '0' through '9' stay the same
- Special characters '-', '\_', ':', ',', '+', and '\*' stay the same
- A double-encoded sequence "%25xy" is passed as a hexadecimal representation of non ASCII characters with special meaning in URLs

### Example 1. Pass ASCII characters that are supported without encoding

To update a propvalue to 'NaN', the following call does not require encoding:

```
http://<podiumHost>/entity/v1/updateProperty/9/default.field.nullif.pattern/NaN
```

Returns JSON:

```
{
  "id": 293,
  "version": 20,
  "lastUpdT": 1467989319734,
  "modifiedBy": "podium",
  "timeZoneOffset": -14400000,
  "name": "default.field.nullif.pattern",
  "value": "NaN"
},
```

### Example 2. Pass non-ASCII characters requiring encoding

Characters such as hashtags, forward, and backward slashes have special meaning in urls (as delimiter, escape, control, or some other types with diacritical meaning) which is why application servers handle these differently. These characters must be double encoded: The percent character (%) must be percent-encoded (%25) before the encoded value (e.g., %255C [\], %252F [/], %2523 [#], etc.)

To pass a propValue with a backslash character ("\n") the backslash has to be double-encoded as '%255C' where '%25' encodes '%' and '5C' encodes back-slash ('\), before "n".

The following API call/input parameter is used to encode backslash n ('\n'):

```
http://<podiumHost>/entity/v1/updateProperties/9/default.field.nullif.pattern/%255Cn
```

Returns JSON for external entity (id=3044):

#### Parameters

Parameter	Value	Description
<b>id</b>	<input type="text" value="3044"/>	<b>Entity Id</b>
<b>props</b>	<pre> "createdTs": 1537461189953, "createdBy": "podium", "lastUpdT": 1537461189953, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "default.field.nullif.pattern", "value": "\\n" </pre>	<b>Properties JSON that is to be persisted or updated</b>
Parameter content type: <input type="text" value="application/json"/>		

The JSON returned displays the escape sequence for the single backslash (2 backslashes), but Podium UI will display the correct updated value (one backslash):

Entity Information ✕

View and edit the details and properties of **fdl** \* Required

---

General Information Properties

✕	default.field.allow.whitespace		▼
✕	default.field.do.not.escape.harmless.contro		👁
✕	default.field.embedded.enclosure.scheme		▼
✕	default.field.enclosure.incidence	NEVER	▼
✕	default.field.max.legal.char.length	0	👁
✕	default.field.min.legal.char.length	0	👁
✕	default.field.nullif.pattern	\\n	👁
✕	default.field.nullif.pattern.is.regex	false	▼

[+ Add Property](#)

Cancel Save Save & Close

**References:**

Encode/Decode Tool

W3 School URL Encodings ([UTF-8 character-set](#))

## Authentication

If users are executing API calls outside of Swagger they must obtain a session with the authentication API. They can make all other API calls once authenticated with the login API.

### POST /j\_spring\_security\_check

Allows the user to obtain a session once the user name and password authentication is successful.

#### Resource URL:

`http://<podiumHost>/podium/j_spring_security_check`

Parameter Name	Is Optional	Description
j_username	No	name for the user to be used to login to Podium
j_password	No	Password for the user being used to login [encrypted passwords allowed, see below]

#### Sample Request:

`http://<podiumHost>/podium/j_spring_security_check`

#### Passing Encrypted Passwords:

Enter j\_username and j\_password through params

The screenshot shows a REST client interface for a POST request to `http://nemo-podium.corp.podiumdata.com:8081/podium-release/j_spring_security_check`. The request is configured with the following parameters:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> j_username	podium	
<input checked="" type="checkbox"/> j_password	#0{BKWujXAJ1nE6txneNeHdXw==}	

The response status is 200 OK, with a time of 774 ms and a size of 93.46 KB. The response body is displayed in 'Pretty' format, showing a session ID and links to help and API documentation.

```

{
  "session": "0",
  "links": {
    "help": "Help",
    "api": "API Documentation"
  }
}

```

## GET /j\_spring\_security\_logout

Closes the session and resources in use and logs the user safely out of the application.

### Resource URL:

`http://<podiumHost>/podium/j_spring_security_logout`

### Sample Request:

`http://<podiumHost>/podium/j_spring_security_logout`

## POST /SAML/SSO

Validates the SAML response sent as part of the payload and establishes a connection to the desired application. There is a spring SAML filter listening on /SAML/SSO endpoint that verifies the assertion and ensures that the username has valid access to podium.

### Resource URL:

`http://<podiumHost>/podium/SAML/SSO`

Parameter Name	Is Optional	Description
SAMLResponse	No	SAMLResponse XML generated by ID provider and sent to the application being redirected to. It is usually a base64 encoded string by the ID Provider.

### Sample Request:

`http://podiumhost:8080/podium/SAML/SSO`



## Cookie-based authorization for Podium API

### Overview

Podium's REST API is protected by the same restrictions provided by the web interface. This means that if a user logs in and does not have permission to view something in Podium, they will not be able to view it using the Podium REST API either.

In most cases, the first step in using the Podium REST API is to authenticate a user account with your Podium web interface. Any authentication that works against Podium will also work against the REST API. The following guidelines address using cookie-based (session) authentication.

### This is how cookie-based authentication works in Podium at a high level:

The client creates a new session for the user through the Podium REST API (Step 1, below).

Podium returns a session object, which has information about the session including the session cookie.

The client stores this session object.

The client can now set the cookie in the header for all subsequent requests to the Podium REST API.

Users should be aware that although cookie-based authentication has many benefits, such as performance (not having to make multiple authentication calls), it also has security risks. For example, your session cookies can be hijacked if handled improperly. While security implications of cookies is beyond the scope of this topic, one should be aware there are risks to using cookie-based authorization.

### Step 1. Create a new session using the Podium REST API

The user needs to get a session cookie from Podium, so the first order of business is to create a new session using the session resource in the Podium REST API.

To do this, POST the desired user credentials (as JSON) to the session resource using command line utility curl:

```
curl -X POST 'http://<PODIUM_SERVER>:<PORT>/podium/j_spring_security_check?j_username=<USERNAME>&j_password=<PASSWORD>' -v
```

This will create a new session and return the requested session information, which will look similar to the following:

```

MacBook_Air:~ clo$ curl -X POST 'http://ludwig.podiumdata.com:8090/podium/j_spring_security_check?j_username=[REDACTED]&j_password=[REDACTED]' -v
* Trying 192.168.126.170...
* TCP_NODELAY set
* Connected to ludwig.podiumdata.com (192.168.126.170) port 8090 (#0)
* POST /podium/j_spring_security_check?j_username=[REDACTED]&j_password=[REDACTED] HTTP/1.1
* Host: ludwig.podiumdata.com:8090
* User-Agent: curl/7.54.0
* Accept: */*
*
HTTP/1.1 302 Found
Server: Apache-Coyote/1.1
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
Set-Cookie: JSESSIONID=33E08F387D034316D462EDACCF157499; Path=/podium; HttpOnly
Location: /podium/
Content-Length: 0
Date: Wed, 16 May 2018 19:31:46 GMT
*
* Connection #0 to host ludwig.podiumdata.com left intact

```

More importantly, a user will get the session cookie from the server, which can be used in subsequent requests. See an example of this below and notice that the cookie name and value are the same as the cookie name and value in the session response above.

```
Set-Cookie: JSESSIONID=33E08F387D034316D462EDACCF157499; Path=/podium; HttpOnly
```

### Step 2. Use the session cookie in a request

Now that a session has been created, the cookie is embedded in all subsequent requests to the server.

Store the session object on the client. The way this is accomplished will depend on how the client is implemented. To make a request, take the cookie name and value from the session and use them to set the 'cookie' field in the header of the request. See example below:

```
headers: {cookie: JSESSIONID=33E08F387D034316D462EDACCF157499}
```

That's it! Now, when a user submits the request, the session cookie will be used to authenticate the user to the Podium server until the cookie expires.

### **Cookie Expiration**

Podium uses Spring security `j_spring_security_check` method supported as part of Tomcat deployment, it defaults to 30 minutes, but can be configured (`session-timeout`) in `web.xml`. If the session and APIs employed only run for a few minutes, then there is no issue and users should not have to worry about cookies expiring. If the sessions are running for a longer period of time due to more complex integration activities, then expiring cookies may cause problems.

If using REST APIs with a cookie that has expired, a user will receive a 401 error response from Podium. The response body will contain a message indicating that their cookie is invalid. At that point, re-authentication to the session resource is required.

## QDC login through API Integrating with Okta Authentication

The following steps detail how to connect QDC login through API using SAML with Okta provider.

The following two `core_env.properties` should be set and Tomcat server restarted before initiating the API request.  
`authentication.mode:SAML`

**example:**

`saml.metadata.provider=https://dev-519244.oktapreview.com/app/exk7y30wlbho83ej70h7/sso/saml/metadata`  
 The SAML metadata provider can be an HTTP provider or an XML file in the classpath (e.g., `/metadata/okta.xml`)  
 This value will change according to environment/classpath.

1) Execute the following CURL request and replace the creds with user's Okta creds

```
curl -v -X POST -H "Accept: application/json" -H "Content-Type: application/json" -d '{"username":"<YOUR_USERNAME>","password":"<YOUR_PASSWORD>","relayState":"<PODIUM_OKTA_EMBED_LINK>","options":{"multiOptionalFactorEnroll": false,"warnBeforePasswordExpired": false}}' "https://dev-519244.oktapreview.com/api/v1/authn"
```

2) Look at the response of the above CURL request and copy the session token("sessionToken") from the response:

```
curl -X GET "https://dev-519244.oktapreview.com/login/sessionCookieRedirect?token=<YOUR_SESSION_TOKEN>&redirectUrl=<LINK_TO_PODIUM_LOGIN_PAGE>" -c cookie.txt
```

3) Now make a CURL request to the embedded Okta link. This link can be found in the 'General' tab of your Okta Application configuration.

```
curl -X GET <PODIUM_OKTA_EMBED_LINK> -b cookie.txt -L -v
```

The above requests returns a form. Step 4 submits that form.

4) Copy the SAMLResponse from the response in Step 3. and go to the following URI to html decode it here:

```
https://codebeautify.org/html-decode-string
```

Note: Above could be replaced with any java html decoder libraries

5) Copy the output of above and now encode it in UTF-8 by navigating to the URI below:

```
https://www.urlencoder.org/
```

Note: Above could to be replaced with any online UTF-8 URL-encoder

6) Submit output of the above step to this CURL request:

```
curl '<LINK_TO_PODIUM>/saml/SSO' -H 'Connection: keep-alive' -H 'Cache-Control: max-age=0' -H 'Upgrade-Insecure-Requests: 1' -H 'Origin: null' -H 'Content-Type: application/x-www-form-urlencoded' -H 'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8' -H 'Accept-Encoding: gzip, deflate, br' -H 'Accept-Language: en-US,en;q=0.9' --data 'SAMLResponse=<OUTPUT_OF_STEP_5>' -c cookie.txt -v
```

7) Now call any of the Podium API, for example execute below to get the source carrying id = 1 :

```
curl '<LINK_TO_PODIUM>/source/getSource/1?bLoadHierarchy=true' -H 'Accept: application/json, text/plain,*/*' -b cookie.txt
```

**The following illustrates a working example of above steps:**

1) Execute the following curl request and replace the creds with user Okta creds

```
curl -v -X POST -H "Accept: application/json" -H "Content-Type: application/json" -d '{"username":"podium.user@gmail.com","password":"password","relayState":"https://dev-519244.oktapreview.com/home/selfdev431779_username_1/0oajn7kwyrzxn2dw10h7/alnjn7y0k2JcEUDlQ0h7?fromHome=true","options":{"multiOptionalFactorEnroll": false,"warnBeforePasswordExpired": false}}' "https://dev-519244.oktapreview.com/api/v1/authn"
```

2) Look at the response of the above CURL request and copy the session token("sessionToken") from the response:

```
curl -X GET "https://dev-519244.oktapreview.com/login/sessionCookieRedirect?token=201110N3QHkZvfeA-2Zvcm2n5PipsvrIin0_OUG3WtIPR7VjJGKhzkM&redirectUrl=http://name-podium.corp.podiumdata.com:8080/podium-trunk/source/getSource/663?bLoadHierarchy=true" -c cookie.txt
```

3) Now, make a CURL request to the embedded Okta link. This can be found in the 'General' tab of your Okta Application configuration.

```
curl -X GET https://dev-519244.oktapreview.com/home/selfdev431779_nameuser_1/0oajn7kwyrzxn2dw10h7/alnjn7y0k2JcEUDlQ0h7 -b cookie.txt -L -v
```

4) Copy the SAMLResponse from the response of the above request, html decode, utf-8 encode and send it as data in the following POST request.

```
curl 'http://name-podium.corp.podiumdata.com:8080/podium-trunk/saml/SSO' -H 'Connection: keep-alive' -H 'Cache-Control: max-age=0' -H 'Upgrade-Insecure-Requests: 1' -H 'Origin: null' -H 'Content-Type: application/x-www-form-urlencoded' -H 'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8' -H 'Accept-Encoding: gzip, deflate, br' -H 'Accept-Language: en-US,en;q=0.9' --data 'SAMLResponse=<OUTPUT_OF_STEP_5>' -c cookie.txt -v
```

QDC APIs can now be called (example):

```
curl 'http://name-podium.corp.podiumdata.com:8080/podium-trunk/source/getSource/1?bLoadHierarchy=true' -H 'Accept: application/json, text/plain, */*' -b cookie.txt
```

## Catalog Controller

### GET /catalog/v1/pagedQVD

Retrieves QVDs available in the system. The API provides optional filtering by tags, datasets, text and Qlik Sense specifications.

#### Swagger Notes:

Mandatory parameters are connectionGUIDs

**{connectionGUIDs}** and **{qsInstallId}** are required parameters

**connectionGUIDs** value can be found in entity property: "qvd.qs.install.connection.guids"

**qsInstallId** value can be found in Admin>QVD Import tab>Qlik Sense Global Unique ID field

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/catalog/v1/pagedQVD>

Parameter Name	Is Optional	Description
page	Yes	Default Value = "0" Recommendation is to start with "0"
size	Yes	Default Value = "100" Page Size (how many QVDs per page)
sort	Yes	Default Value = "popularityScore" Sort Criteria, which property to sort on: <b>KPIs to sort on include:</b> operationalScore popularityScore qualityScore (to sort by "Size" for QVDs) lastLoadDate entityName fieldCount rowCount
sortDirection	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'DESC'.
tags	Yes	List of tags to filter on
sourceIds	Yes	List of Qlik Data Catalyst source ids (comma-separated) to filter on
datasetIds	Yes	List of Qlik Data Catalyst dataset ids (comma-separated) to filter on
searchText	Yes	Text to search
searchCriteria	Yes	Default is 255: This number comes from (name[1] + business name[2] + business description[4] + tags[8] + entity[16] + source[32] + field[64] + QVD entity[128] = 255)  Search on name: 1, business name: 2, business description: 4, tags: 8 Example search on QVD entity name and business description (128 + 1 + 4); where 128 is the search mask of QVD entity, 1 is the search mask for name and 4 is the search mask for business description.  NOTE: Please note that this API doesn't search on QVD file names, paths, connection names.
connectionGUIDs	No	Qlik Sense connection unique ids (GUIDs). If the result-set needs to be filtered based on the connections, provide a comma-separated list of the connection guides.
qsUserName	Yes	Sent only as a background info to see the user which originated the request - not used for filtering data.

qsInstallId	No	Qlik Sense install id. This is the unique id for any of the Qlik Sense installs and is populated inside QDC at the time of creation as a Qlik Sense Global Unique ID.
-------------	----	---

Return Type	Description
List<QVD Entity>	JSON for collection of entities

**Sample Request:**

http://<podiumHost>/podium/catalog/v1/pagedQVD?  
page=0&size=100&sort=popularityScore&sortDirection=DESC&searchCriteria=255&connectionGUIDs=c  
42b0a26-e506-43b0-a84d-f0ae189f24a0&qsInstallId=355803b7-5c94-4e37-8093-dbfa667df1d4

**Sample Response:**

```
{
  "links": [
    {
      "rel": "self",
      "href": "http://hostname.corp.podiumdata.com:8080/podium-trunk/catalog/v1/pagedQVD?page=0&size=100&sort=popularityScore,desc"
    }
  ],
  "content": [
    {
      "sourceId": 120,
      "sourceName": "KG_QVD_FROZEN2",
      "entityId": 2800,
      "entityName": "Alias",
      "entityLevel": "MANAGED",
      "operationalScore": null,
      "qualityScore": 0,
      "popularityScore": 0,
      "rowCount": 450,
      "fieldCount": 7,
      "tableSizeMb": null,
      "lastLoadDate": 0,
      "tags": "",
      "businessName": null,
      "businessDesc": "",
      "datasetId": null,
      "groupId": null,
      "isQVD": true,
      "dataConnections": [
        {
          "id": "c42b0a26-e506-43b0-a84d-f0ae189f24a0",
          "name": "load_test_kg(ad_podium)",
          "connectionString": "C:\\share\\QVD_TEST",
          "fullPath": "C:\\share\\QVD_TEST\\Alias.qvd",
          "relativePath": "\\Alias.qvd",
          "fileName": "\\Alias.qvd\\"
        }
      ],
      "links": [
        {
          "rel": "self",
          "href": "http://hostname.corp.podiumdata.com:8080/podium-trunk/dashboard/2800"
        }
      ]
    },
    {
      "sourceId": 120,
      "sourceName": "KG_QVD_FROZEN2",
      "entityId": 2802,
      "entityName": "loan",
      "entityLevel": "MANAGED",
      "operationalScore": null,
      "qualityScore": 0,
      "popularityScore": 0,
      "rowCount": 8,
      "fieldCount": 13,
      "tableSizeMb": null,
      "lastLoadDate": 0,
      "tags": "",
      "businessName": null,
      "businessDesc": "",
      "datasetId": null,
      "groupId": null,
      "isQVD": true,
      "dataConnections": [
        {
          "id": "c42b0a26-e506-43b0-a84d-f0ae189f24a0",
          "name": "load_test_kg(ad_podium)",
          "connectionString": "C:\\share\\QVD_TEST",
          "fullPath": "C:\\share\\QVD_TEST\\loan.qvd",
          "relativePath": "\\loan.qvd",
          "fileName": "\\loan.qvd\\"
        }
      ],
      "links": [
        {
          "rel": "self",
          "href": "http://hostname.corp.podiumdata.com:8080/podium-trunk/dashboard/2802"
        }
      ]
    }
  ]
}
```

...  
[response has been truncated]

## Entity Controller

### GET /entity/v1/byId/{ids}

Returns a collection of JSON for entities associated with provided id/ids.

#### Swagger Notes:

Comma separated entity **{ids}** are allowed

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/entity/v1/byId/{ids}>

Parameter Name	Is Optional	Description
Count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
Start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataEntityBasicInfo>	JSON for collection of entity

##### Sample Request:

<http://<podiumHost>/podium/entity/v1/byId/4>

##### Sample Response:

```
[{"objectType": "DataEntity",
  "id": 2, "version": 4,
  "createdTs": 1515528622947,
  "createdBy": "ccuser",
  "lastUpdT": 1516702643229,
  "modifiedBy": "ANONYMOUS",
  "timeZoneOffset": 0,
  "name": "dff",
  "businessName": null,
  "businessDescription": null,

  "props":
  [{"id": 62177,
    "version": 0,
    "createdTs": 1518115633364,
    "createdBy": "SYSTEM",
    "lastUpdT": 1518115633364,
    "modifiedBy": "SYSTEM",
    "timeZoneOffset": 0,
    "name": "entity.level",
    "value": "MANAGED"},
    {"id": 115,
    "version": 0,
    "createdTs": 1515528622954,
    "createdBy": "ccuser",
    "lastUpdT": 1515528622954,
    "modifiedBy": "ccuser",
    "timeZoneOffset": 0,
```



```
"name": "original.name",  
"value": "dff"}],  
"shortName": null,  
"threshold": 0.1,  
"entType": "INTERNAL",  
"internalFileFormat": "TEXT_TAB_DELIMITED",  
"sourceConnection": null,  
"entityTags": []}]
```

## GET /entity/v1/byParentId/{sourceId}

Returns a collection of entities for given source Id. Results in an exception in case Invalid source Id is provided.

### Swagger Notes:

Comma separated **{sourceId}** allowed

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

### REST Client tool guide:

#### Resource URL:

`http://<podiumhost>/podium/entity/v1/byParentId/{sourceId}`

Parameter Name	Is Optional	Description
Count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
Start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataEntityBasicInfo>	JSON for collection of entity

#### Sample Call:

`http://podiumhost:8080/podium/entity/v1/byParentId/2?start=0&sortAttr=name&sortDir=ASC`

#### Sample Response:

```
{
  "subList": [
    {
      "id": 2,
      "version": 1,
      "lastUpdTs": 1484218401003,
      "timeZoneOffset": -14400000,
      "name": "pd_entity",
      "parentSourceId": 3,
      "businessDescription": null,
      "businessName": null,
      "shortName": null,
      "entType": "INTERNAL",
      "internalFileFormat": "TEXT_TAB_DELIMITED",
      "parentSourceName": "podium_coreaaa",
      "dataSourceInfo": null,
      "groups": [],
      "baseType": null,
      "hiveLocation": null,
      "dataLoaded": false,
      "parentSourceType": "PODIUM_INTERNAL",
      "parentCommProtocol": "JDBC",
      "connectionType": null,
      "syncStatus": "NEVER_SYNCED"
    }
  ],
  "fullListSize": 1,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true
}
```

## GET /entity/v1/changedSince

Returns a collection of JSON for entities that have changed since specified time

### Swagger Notes:

**{since}** is only required parameter in format: yyyy-MM-dd HH:mm:ss.SSS

**example:** 2018-01-30 04:25:53.868

**{start} index:** Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

Sort attribute options **{sortAttr}**: name, id, version, lastUpdT

**{hierIds}**, **{sourceIds}** are helpful parameters to limit response objects

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/entity/v1/changedSince/{since}`

Parameter Name	Is Optional	Description
since	No	Timestamp (format: "yyyy-MM-dd HH:mm:ss.SSS")
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierIds	Yes	Hierarchy id(s), comma-separated
sourceIds	Yes	Source id(s), comma-separated

Return Type	Description
subList <Source>	JSON for collection of entities

#### Sample Request:

`http://<podiumhost>/podium/entity/v1/changedSince?objType=INTERNAL&since=2018-09-30 04:25:53.868`

#### Sample Response:

```
{
  "subList": [
    {
      "id": 12150, "version": 1, "lastUpdT": 1466674964535, "timeZoneOffset": -14400000, "name": "ee", "parentSourceId": 1373, "businessDescription": null, "businessName": null, "shortName": null, "entType": "INTERNAL", "internalFileFormat": "TEXT_TAB_DELIMITED", "parentSourceName": "afs", "dataSourceInfo": null, "groups": [], "baseType": null, "hiveLocation": null, "dataLoaded": false}
    ],
    "fullListSize": 1,
    "startIndex": 0,
    "sortPropertyName": "name",
    "isAscendingOrder": true}
}
```

## POST /entity/v1/computeEntityMetrics/{entityIds}

Computes the custom metrics for the entity ids provided.

NOTE: KPI Metrics are computed for INTERNAL entities only. (These entities display in modules *other than* Source: Discover, Prepare, Publish, Catalog)

### Swagger Notes:

Comma separated internal entity **{ids}** are allowed.

**Response Code: 201** indicates success

Note that if the specified Entity ID is not recognized or is not in the system, the error message returned is "DYNAMIC\_ERROR – null". This error message is a bug, as it is not helpful to indicate the entity ID was not found.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/entity/v1/computeEntityMetrics/{entityIds}`

Return Type	Description
List<Entity>	JSON for collection of entities

#### Sample Request:

`http://<podiumHost>/podium/entity/v1/computeEntityMetrics/3457`

#### Sample Response:

No response in Body, but upon successful computation, **Status: 201 Created**

## POST /entity/v1/createFromJsonHen

Supports creation of source/entities via JSON and FDL. Takes JSON .hen (multipart file/s ) as input. Takes a subset of FDL (multipart file) to provide source Information as Input. Creates and loads the data for new hierarchy/source and entity (or entities). Loads new entity data for existing hierarchy/source. Saves the uploaded FDL on the created entity in entity property 'entity.fdl.' Associates the newly created entities to the specified groups. [jsonHenFile=Multipart file containing valid data definition to create JSON entities].

### Swagger Notes:

Entity creation from HEN (Hierarchical Extraction and Normalization rules) is relatively straightforward with Swagger. Users will note embedded parameters are easier to work with than manually defining them in the body of traditional API tools.

Upload **HEN** file

Upload **FDL** file

#### Note:

**{groupIds}** can be found by using: GET /security/group/v1/groupsByUser

**{sourceConnId}** can be found by using: GET /srcConnection/v1/getConnections

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v2/createFromJsonHen

Parameter Name	Is Optional	Description
fdlFile	No	Multipart file containing valid data definition to create Hierarchy/Source and Entity file path. If the source with the given name exists, new entities will be added to existing source.
jsonHenFile	No	File containing valid data definition (based on JSONPath - XPath for JSON) to create entities for JSON source. This file defines Hierarchy Extraction and Normalization (== HEN) rules for extracting tabular, record-oriented data from JSON (www.json.org) data structures.
groupIds	No	Accepts array of type long[], comprised of valid group ids to be associated with the created entities (Internal and external)
sourceConnId	No	Source Connection Id
entityLevel	No	Data Conductor Level to be set for the entity. If not provided, One defined at source/system level is used in case of existing/new sources respectively. Also applicable to the source if it is newly created with this call.

Return Type	Description
ResultInfo	JSON for ResultInfo containing the newly created source or updated source info along with newly created entity info for successful metadata creation. It may also contain information like: -An entity already existed so new entity creation got skipped -Error string with details explaining why error occurred.

#### Sample Call:

http://<hostname.com:port>/podium/entity/v1/createFromJsonHen

#### Sample Request Instructions:

In **Body** Tab, specify all appropriate parameters

## Postman Request/Response for POST entity/v1/createFromJsonHen

▶ http://nemo-podium.corp.podiumdata.com:8080/podium-trunk/entity/v1/createFromJsonHen Examples (0) ▾

POST  Send ▾ Save ▾

Params Authorization Headers **Body** Pre-request Script Tests Cookies Code

none
  form-data
  x-www-form-urlencoded
  raw
  binary

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> fdlFile	<input type="button" value="Choose Files"/> json-fdlExample.txt	
<input checked="" type="checkbox"/> jsonHenFile	<input type="button" value="Choose Files"/> json.txt	
<input checked="" type="checkbox"/> groupIds	1	
<input checked="" type="checkbox"/> sourceConnId	8	
<input checked="" type="checkbox"/> entityLevel	MANAGED	
Key	Value	Description

Body Cookies (2) Headers (10) Test Results Status: 200 OK Time: 9357 ms Size: 802 B Save Download

```
[{"objectType":"","objectId":"","name":"","message":"Successfull in reading input multipart request","status":"INFO"}, {"objectType":"DataSource","objectId":"285","name":"Test11","message":"Successully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"1062","name":"ticket","message":"Successully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"1063","name":"ticket_tag","message":"Successully created","status":"SUCCEEDED"}]
```

### FDL should be in below format:

```
#####
##### FILE INFO #####
#####
All are required attributes and a value must be provided.
# Source system name. In case of hierarchical name use '.'
to separate elements e.g. SRC1.SRC1SUB1.SRC1SUB1SUB2.
src.sys.type=JSON
src.sys.name=testJsonSrc.Test11
# Inbound communication protocol - sample valid values
are: ftp, file, s3, HDFS etc.
src.comm.protocol=file
src.file.glob=/Users/dfj/data/tickets.json
#####
##### CONN INFO #####
#####
src.connection.file=/Users/dfj/data/SrcConnection.txt
```

### Example of JSON .HEN File

```
datasetName: tickets
jsonDatasetStructure: SINGLETON_JSON_OBJECT

table: ticket
  ticketId $.$tickets[*].id
  type $.$tickets[*].type
  sourceFrom $.$tickets[*].source.from
  sourceTo $.$tickets[*].source.to
  subject $.$tickets[*].subject
  description $.$tickets[*].description
  priority $.$tickets[*].description
  status $.$tickets[*].status
  tags $.$tickets[*].tags
  created_at $.$tickets[*].created_at

table: ticket_tag
  ticketId $.$tickets[*].tags[*]
  ticketId $.$tickets[*].id
  tag $.$tickets[*].tags[*]

table: ticket_custom_field
  ticketId $.$tickets[*].custom_fields[*]
  customFieldId $.$tickets[*].custom_fields[*].id
  customFieldValue $.$tickets[*].custom_fields[*].value
```

## Example of Original JSON File

```
{
  "tickets": [
    {
      "url": "https://spectrummobile-uat.zendesk.com/api/v2/tickets/1.json",
      "id": 1,
      "external_id": null,
      "via": {
        "channel": "sample ticket",
        "source": {
          "from": {},
          "to": {},
          "rel": null
        }
      },
      "created_at": "2018-01-24T17:36:44Z",
      "updated_at": "2018-03-02T16:20:59Z",
      "type": "incident",
      "subject": "Sample ticket: Meet the ticket",
      "raw_subject": "Sample ticket: Meet the ticket",
      "description": "Hi Chris,\n\nEmails, chats, voicemails, and tweets are captured in Zendesk Support as tickets. Start click Submit to send. To test how an email becomes a ticket, send a message to support@spectrummobile-uat.zendesk.co your customers will see when you reply? Check out this video:\nhhttps://demos.zendesk.com/hc/en-us/articles/202341799",
      "priority": "high",
      "status": "closed",
      "recipient": null,
      "requester_id": 360335701272,
      "submitter_id": 360333737972,
      "assignee_id": null,
      "organization_id": null,
      "group_id": null,
      "collaborator_ids": [],
      "follower_ids": [],
      "email_cc_ids": [],
      "forum_topic_id": null,
      "problem_id": null,
      "has_incidents": false,
      "is_public": true,
      "due_at": null,
      "tags": [
        "auto_close_ticket",
        "autoclose_voice_care_7days",
        "cs_tier_1_unresolved",
        "sample",
        "support",
        "zendesk"
      ],
      "custom_fields": [
        {
          "id": 360001008831,
          "value": null
        },
        {
          "id": 360000949292,
          "value": false
        },
        {
          "id": 360001008851,
          "value": null
        },
        {
          "id": 360001008871,
          "value": null
        },
        {
          "id": 360000949312,
          "value": ""
        },
        {
          "id": 360000949332,
          "value": null
        },
        {
          "id": 360001008891,
          "value": null
        },
        {
          "id": 360000949352,
          "value": null
        },
        {
          "id": 360000949372,
          "value": null
        },
        {
          "id": 360000949392,
          "value": null
        },
        {
          "id": 360001008911,
          "value": null
        }
      ]
    }
  ]
}
```

## Sample Response:

```
[
  {
    "objectType": "",
    "objectId": "",
    "name": "",
    "message": "Successfull in reading input multipart request",
    "status": "INFO"
  },
  {
    "objectType": "DataSource",
    "objectId": "285",
    "name": "Test11",
    "message": "Successfully created",
    "status": "SUCCEEDED"
  },
  {
    "objectType": "DataEntity",
    "objectId": "1062",
    "name": "ticket",
    "message": "Successfully created",
    "status": "SUCCEEDED"
  },
  {
    "objectType": "DataEntity",
    "objectId": "1063",
    "name": "ticket_tag",
    "message": "Successfully created",
    "status": "SUCCEEDED"
  }
]
```



## PUT /entity/v1/dataLoadCleanUp/{bitmask}/{workOrderIds}

Deletes data based on bitmask for selected load/s

### Swagger Notes:

**{workOrderIds}** is the log id associated with a load or Prepare job

WorkOrder Ids = Load Log Ids, can be obtained by running: GET /entity/v1/loadLogs/{entityIds}

**Request URL**

```
http://jungle-podium.corp.podiumdata.com:8080/podium/entity/v1/loadLogs/27900?count=500&sortAttr=loadTime&sortDir=DESC
```

---

**Request Headers**

```
{
  "Accept": "*/*"
}
```

---

**Response Body**

```
{
  "subList": [
    {
      "id": 1981,
      "version": 6,
      "lastUpdTs": 1517516245529,
      "timeZoneOffset": 0,
      "loadTime": 1518725538000,
    }
  ]
}
```

## REST Client tool guide:

### Resource URL:

<http://<podiumHost>/podium/entity/v1/dataLoadCleanUp/{bitMask}/{workOrderIds}>

Parameter Name	Is Optional	Description
workOrderIds	No	Ids for workOrders to be deleted
bitMask	No	Integer bitmask indicating workOrder object data to be cleaned up: 1 - Delete Load Logs 2 - Delete ProfileData 4 - Delete HDFS contents 8 - Delete Hive partition <b>Extended:</b> 3 - Delete Load Logs & ProfileData 5 - Delete Load Logs & HDFS contents 6 - Delete ProfileData & HDFS contents 7 - Delete Load Logs, ProfileData and HDFS contents 9 - Delete Load Logs and Hive partition 10 - Delete ProfileData and Hive partition 11 - Delete Load Logs and ProfileData and hive partition 12 - Delete Hive partition and HDFS contents 13 - Delete Load Logs, Hive partition and HDFS contents 14 - Delete ProfileData, Hive partition and HDFS contents 15 - Delete Load Logs, ProfileData, Hive partition and HDFS

		contents
--	--	----------

Return Type	Description
List <DataDeletionResult>	DataDeletionResult

**Sample Request:**

http://<podiumhost>/podium/entity/v1/dataLoadCleanUp/8/180

**Sample Response:**

```
[{"id": 180, "successfulOperations": {"REMOVE_HIVE_TABLES": "Hive cleanup successful"}, "failedOperations": {}, "hasErrors": false}]
```

## PUT /entity/v1/delete/{entityIds}/{bitMask}

Returns integer bitmask with details of delete operation

### Swagger Notes:

{entityIds} and {bitMask} are the only required parameters

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/delete/{entityIds}/{bitMask}

Parameter Name	Is Optional	Description
entityIds	No	Ids for entities to be deleted
bitMask	No	Integer bitmask indicating entity to be cleaned up from source or whole system. Please check valid options here: remove entity: 16 remove entity along with HDFS data: 20 remove entity along with hive tables: 24 remove entity along with HDFS data and hive tables: 28 remove entity along with HDFS data, hive tables and user views: 92

Return Type	Description
ObjectDeletionResult	ObjectDeletionResult: JSON containing details of data cleanup

#### Sample Request:

http://<podiumhost>/podium/entity/v1/delete/32384/24

#### Sample Response:

```
[
  {
    "id": 32384,
    "successfulOperations": {
      "REMOVE_ENTITY": "Entity cleanup successful",
      "REMOVE_HIVE_TABLES": "HIVE cleanup successful"
    },
    "failedOperations": {},
    "hasErrors": false
  }
]
```

## GET /entity/v1/entitiesWithCurrentMetrics/{entityIds}

Returns the current metrics for the (**internal** or **prepare\_target** only) entity ids provided.

### Swagger Notes:

{entityIds} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/entitiesWithCurrentMetrics/{entityIds}

Parameter Name	Is Optional	Description
entityIds	No	Ids for entities on which metrics are returned

Return Type	Description
List<Entity>	JSON for collection of entities

#### Sample Request:

http://<podiumhost>/podium/entity/v1/entitiesWithCurrentMetrics/3737%2C3726

#### Sample Response:

```
[{"id":57973,"version":0,"lastUpdT":1540313149306,"timeZoneOffset":0,"dataEntity":
{"id":3737,"version":2,"lastUpdT":1539627872990,"timeZoneOffset":0,"name":"BASEBALL_BATTI
NG","parentSourceId":834,"businessDescription":null,"businessName":null,"shortName":null,"
entType":"INTERNAL","internalFileFormat":"TEXT_TAB_DELIMITED","parentSourceName":"jdbcOracl
ePrepare331_import","dataSourceInfo":null,"groups":
[],"baseType":null,"hiveLocation":null,"dataLoaded":false,"parentSourceType":"PODIUM_INTER
NAL","parentCommProtocol":"JDBC","connectionType":null,"connectionName":null,"syncStatus":
"NEVER_SYNCED","level":"MANAGED"},"metricName":"ALL_PREPARE_LOADS","partitionName":null,"m
etricValue":0.0,"startTime":1540313148697,"endTime":4133894400000},
{"id":57974,"version":0,"lastUpdT":1540313149329,"timeZoneOffset":0,"dataEntity":
{"id":3737,"version":2,"lastUpdT":1539627872990,"timeZoneOffset":0,"name":"BASEBALL_BATTI
NG","parentSourceId":834,"businessDescription":null,"businessName":null,"shortName":null,"
entType":"INTERNAL","internalFileFormat":"TEXT_TAB_DELIMITED","parentSourceName":"jdbcOracl
ePrepare331_import","dataSourceInfo":null,"groups":
[],"baseType":null,"hiveLocation":null,"dataLoaded":false,"parentSourceType":"PODIUM_INTER
NAL","parentCommProtocol":"JDBC","connectionType":null,"connectionName":null,"syncStatus":
"NEVER_SYNCED","level":"MANAGED"},"metricName":"FINISHED_PREPARE_LOADS","partitionName":nu
ll,"metricValue":0.0,"startTime":1540313148697,"endTime":4133894400000},
...
[response has been truncated]
```

## POST /entity/v1/executeEntityRules/{entityIds}

Executes custom rules for the external entity ids provided.

These rules are specified in the property entity.postprocessing.rules of an external entity or Prepare target.

Data must be loaded and currently existing on the Entity ID provided in order for the rules to execute.

**Note:** The Error message for this call is "DYNAMIC\_ERROR - null" when an invalid entity ID is provided (the specified Entity ID is not recognized or is not in the system). A more meaningful, helpful error message is planned for post 3.4.1 release.

### Swagger Notes:

{entityIds} is the only required parameter.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/executeEntityRules/{entityIds}

Parameter Name	Is Optional	Description
entityIds	No	Ids for entities that rules will be executed on.

Return Type	Description
ResultInfo	Note that future response will display ResultInfo containing description of the call results/action.

#### Sample Request:

http://<podiumhost>/podium/entity/v1/executeEntityRules/1949

#### Sample Response:

No response in Body, but upon successful computation, **Status: 201 Created**

## GET /entity/v1/getEntities

Returns collections of entities ordered by name (default). Returned list may contain just key attributes for an entity. In order to get complete information for an entity, additional call can be made to

GET `entity/v1/byId/{ids}` by using entity id from response.

- Provides pagination support via optional parameters
- Provides sorting support via optional parameters

### Swagger Notes:

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

## REST Client tool guide:

### Resource URL:

`http://<podiumHost>/podium/entity/v1/getEntities/?type={object_type}&count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}`

Parameter Name	Is Optional	Description
type	Yes	Option to choose if the returned collection contains only internal, external or all(both) entities as per specified ObjectFilterType. By default it returns external entities.
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataEntityBasicInfo>	JSON for collection of entities

### Sample Call:

`http://<podiumHost>/podium/entity/v1/getEntities/?type=EXTERNAL&count=2&start=0&sortAttr=name&sortDir=DESC`

### Sample Response:

```
{
  "subList": [
    {
      "id": 362,
      "version": 0,
      "lastUpdTs": 1477587681695,
      "timeZoneOffset": -14400000,
      "name": "westerosHouses",
      "parentSourceId": 10,
      "businessDescription": null,
      "businessName": null,
      "shortName": null,
      "entType": "EXTERNAL",
      "internalFileFormat": "TEXT_TAB_DELIMITED",
      "parentSourceName": "dbo",
      "dataSourceInfo": null,
      "groups": [],
      "baseType": null,
      "hiveLocation": null,
      "dataLoaded": false
    },
    {
      "id": 389,
      "version": 0,
      "lastUpdTs": 1477588829012,
      "timeZoneOffset": -14400000,
      "name": "westerosHouses",
      "parentSourceId": 12,
      "businessDescription": null,
      "businessName": null,
      "shortName": null,
      "entType": "EXTERNAL",
      "internalFileFormat": "TEXT_TAB_DELIMITED",
      "parentSourceName": "dbo27octwithUSDT",
      "dataSourceInfo": null,
      "groups": [],
      "baseType": null,
      "hiveLocation": null,
      "dataLoaded": false
    }
  ],
  "fullListSize": 217,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": false
}
```

## GET /entity/v1/getEntitiesByCrit/{targetFlds}/{searchTxt}

[with usual list params to filter data, hierlds, and sourcelds as optional param]

Returns a list of entities that satisfy search criteria.

### Swagger Notes:

**{targetFlds}** and **{searchTxt}** are the only required parameters

**{targetFlds}** works as bit operator: For example, to GET Entities with attributes that contain searched-for text **{searchTxt}** in Name(2) and Business Name(4) fields, provide a **{targetFlds}** parameter adding both bits to get a **{targetFlds}** value (6).

Sort attribute options **{sortAttr}**: name, id, version, lastUpdT

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

**{hierlds}**, **{sourcelds}** are helpful criteria to limit response

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/entity/v1/getEntitiesByCrit/{targetFlds}/{searchTxt:.+}>

Parameter Name	Is Optional	Description
targetFlds	No	An integer value that represents fields to search for search value in sources. Valid filter values: - Name (2) - Business Name (4) - Business Desc (8) - Tag (16) - All of the above (30)
searchTxt	No	Search value to search for sources
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierlds	Yes	Hierarchy id(s), comma-separated
sourcelds	Yes	Source id(s), comma-separated

Return Type	Description
subList <Source>	JSON for collection of entities

#### Sample Request:

<http://<podiumhost>/podium/entity/v1/getEntitiesByCrit/2/sys/?objType=INTERNAL>

#### Sample Response:

```
{
  "subList": [
    {
      "id": 695,
      "version": 1,
      "lastUpdT": 1516993219915,
      "timeZoneOffset": 0,
      "externalData":
    }
  ]
}
```



```
{"original.name":"CustomerProfileControl","entity.level":"MANAGED"},"name":"CustomerProfileControl","parentSourceId":513,"businessDescription":"","businessName":null,"shortName":null,"entType":"INTERNAL","internalFileFormat":"TEXT_TAB_DELIMITED","parentSourceName":"xmltest31","dataSourceInfo":null,"groups":[],"baseType":null,"hiveLocation":null,"dataLoaded":false,"parentSourceType":"PODIUM_INTERNAL","parentCommProtocol":"LOCALFILE","connectionType":null,"syncStatus":"NEVER_SYNCED","level":"MANAGED"}], "fullListSize":1, "startIndex":0, "sortPropertyName":"name", "isAscendingOrder":true}
```

## GET /entity/v1/getProperty/{id}/{propName}

### Swagger Notes:

Entity **{id}** and **{propName}** are the only required parameters

#### example:

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
<b>id</b>	<input type="text" value="10939"/>	<b>Entity ID</b>	path	long
<b>propName</b>	<input type="text" value="entity.level"/>	<b>Property name for which value is to be retrieved.</b>	path	string

  

Response Body
"MANAGED"

### REST Client tool guide:

Retrieves a single property value identified with given name for a field.

#### Resource URL:

http://<podiumHost>/podium/entity/v1/getProperty/{id}/{propName}

Parameter Name	Is Optional	Description
id	No	Entity id
propName	No	Property name for which value is to be retrieved.

Return Type	Description
String	Value for the entity property.

#### Sample Call:

http://podiumhost:8080/podium/entity/v1/getProperty/313/record.characterset

#### Sample Response:

"VARIABLE\_CHAR\_LENGTH\_TERMINATED"

## POST /entity/v1/importBusinessMetadata

Allows admin user to import business metadata from an Excel file that is then applied to objects with ability to set objectType to update (INTERNAL, EXTERNAL, or ALL). See Online Help for XLS Layout details (Administration>Import/Export Metadata>Extended Business Metadata Import Support for CSV Import of Custom Field Values)

### Swagger Notes:

XLS file is the only required payload parameter. Other parameter specifications are set to default (see below)

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/entity/v1/importBusinessMetadata/{objectType}/{bLogEntityProcessing}/{bLogFieldProcessing}`

Parameter Name	Is Optional	Description
File	No	XLS file containing Business Metadata Fields
objectType	Yes	Indicates whether to update INTERNAL, EXTERNAL, or ALL objects. Default: ALL
blogEntityProcessing	Yes	Indicates whether to log entity processing. Boolean. Default: false
blogFieldProcessing	Yes	Indicates whether to log field processing. Boolean. Default: true

Return Type	Description
ResultInfo	JSON for ResultInfo containing the new business metadata definitions and success/failure status at each level.

Excel spreadsheet is required for upload.

#### example:

Source	Entity	Field	Business Name	Business Description	Technical Description	NewMD1	NewMD2	Tag 1	Tag 2	Tag 3
HR_2			BizSource			S.Value1	S.Value2	optional	doctag	detail
HR_2	EMPLOYEES		BizEntity			E.Value1	E.Value2	optional	doctag	detail
HR_2	EMPLOYEES	MANAGER_ID	BizField			F.Value1	F.Value2	optional	doctag	detail

#### Sample Request:

`http://<podiumHost>/podium/entity/v1/importBusinessMetadata?objectType=ALL&bLogEntityProcessing=false&bLogFieldProcessing=true`

#### Sample Request Instructions:

In **Body** Tab, specify all appropriate parameters

## Postman Request/Response for POST entity/v1/importBusinessMetadata

POST http://nemo-podium.corp.podiumdata.com:8081/podium-release/entity/v1/importBusinessMetadata?objec... Send Save

Params Authorization Headers **Body** Pre-request Script Tests Cookies Code

form-data x-www-form-urlencoded raw binary

KEY	VALUE	DESCRIPTION
file	Choose Files Employee_Metadata_Import_07.xlsx	
Key	Value	Description

Body Cookies (1) Headers (8) Test Results Status: 200 OK Time: 3458 ms Size: 2.66 KB Download

Pretty Raw Preview JSON

```

1 [
2   {
3     "objectType": "in reading input resource",
4     "objectId": "",
5     "name": "",
6     "message": "Succeeded in reading input resource file",
7     "status": "SUCCEEDED"
8   },
9   {
10    "objectType": "in updating DataDefinitions for DataSource",
11    "objectId": "813",
12    "name": "HR_2",
13    "message": "Succeeded updating DataDefinitions for DataSource",
14    "status": "SUCCEEDED"
15  },
16  {
17    "objectType": "in updating DataDefinitions for DataSource",
18    "objectId": "814",
19    "name": "HR_2",
20    "message": "Succeeded updating DataDefinitions for DataSource",
21    "status": "SUCCEEDED"
22  },
23  {
24    "objectType": "in updating DataDefinitions for DataSource",
25    "objectId": "815",
26    "name": "HR_2",
27    "message": "Succeeded updating DataDefinitions for DataSource",
28    "status": "SUCCEEDED"
29  },
30  {
31    "objectType": "in updating DataDefinitions for DataSource",
32    "objectId": "816",
33    "name": "HR_2",
34    "message": "Succeeded updating DataDefinitions for DataSource",
35    "status": "SUCCEEDED"
36  },
37  {
38    "objectType": "in updating DataDefinitions for DataSource",
39    "objectId": "817",
40    "name": "HR_2",
41    "message": "Succeeded updating DataDefinitions for DataSource",
42    "status": "SUCCEEDED"
43  },
44  {
45    "objectType": "in updating DataDefinitions for DataSource",
46    "objectId": "818",
47    "name": "HR_2",
48    "message": "Succeeded updating DataDefinitions for DataSource",
49    "status": "SUCCEEDED"
50  },
51  {
52    "objectType": "in updating DataDefinitions for DataSource",
53    "objectId": "819",
54    "name": "HR_2",
55    "message": "Succeeded updating DataDefinitions for DataSource",
56    "status": "SUCCEEDED"
57  },
58  {
59    "objectType": "in updating DataDefinitions for DataSource",
60    "objectId": "820",
61    "name": "HR_2",
62    "message": "Succeeded updating DataDefinitions for DataSource",
63    "status": "SUCCEEDED"
64  },
65  {
66    "objectType": "in updating DataDefinitions for DataSource",
67    "objectId": "821",
68    "name": "HR_2",
69    "message": "Succeeded updating DataDefinitions for DataSource",
70    "status": "SUCCEEDED"
71  },
72  {
73    "objectType": "in updating DataDefinitions for DataSource",
74    "objectId": "822",
75    "name": "HR_2",
76    "message": "Succeeded updating DataDefinitions for DataSource",
77    "status": "SUCCEEDED"
78  },
79  {
80    "objectType": "in updating DataDefinitions for DataSource",
81    "objectId": "823",
82    "name": "HR_2",
83    "message": "Succeeded updating DataDefinitions for DataSource",
84    "status": "SUCCEEDED"
85  },
86  {
87    "objectType": "in updating DataDefinitions for DataSource",
88    "objectId": "824",
89    "name": "HR_2",
90    "message": "Succeeded updating DataDefinitions for DataSource",
91    "status": "SUCCEEDED"
92  },
93  {
94    "objectType": "in updating DataDefinitions for DataSource",
95    "objectId": "825",
96    "name": "HR_2",
97    "message": "Succeeded updating DataDefinitions for DataSource",
98    "status": "SUCCEEDED"
99  },
100 }

```

Build Browse

### Sample Response:

```

[{"objectType":"in reading input resource","objectId":"","name":"","message":"Succeeded in reading input resource file","status":"SUCCEEDED"},{"objectType":"in updating DataDefinitions for DataSource","objectId":"813","name":"HR_2","message":"Succeeded updating DataDefinitions for DataSource","status":"SUCCEEDED"}, {"objectType":"JDBC_SOURCE","objectId":"813","name":"HR_2","message":"Succeeded in finding source","status":"SUCCEEDED"}, {"objectType":"in finding DataEntity","objectId":"","name":"EMPLOYEES","message":"Succeeded in finding entity","status":"SUCCEEDED"}, {"objectType":"in updating DataDefinitions for DataEntity","objectId":"3683","name":"EMPLOYEES","message":"Succeeded updating DataDefinitions for DataEntity","status":"SUCCEEDED"}, {"objectType":"DataEntity -EXTERNAL","objectId":"3683","name":"EMPLOYEES","message":"Metadata update for Datafields belonging to EXTERNAL DataEntity:EMPLOYEES, Entity Id:3683 is in progress..","status":"SUCCEEDED"}, {"objectType":"in finding DataField","objectId":"112254","name":"MANAGER_ID","message":"Succeeded in finding field","status":"SUCCEEDED"}, {"objectType":"in updating DataDefinitions for DataField","objectId":"112254","name":"MANAGER_ID","message":"Succeeded updating DataDefinitions for DataField","status":"SUCCEEDED"}, {"objectType":"in updating DataDefinitions for DataSource","objectId":"814","name":"HR_2","message":"Succeeded updating DataDefinitions for DataSource","status":"SUCCEEDED"}, {"objectType":"PODIUM_INTERNAL","objectId":"814","name":"HR_2","message":"Succeeded in finding source","status":"SUCCEEDED"}, {"objectType":"in finding DataEntity","objectId":"","name":"EMPLOYEES","message":"Succeeded in finding entity","status":"SUCCEEDED"}, {"objectType":"in updating DataDefinitions for DataEntity","objectId":"3684","name":"EMPLOYEES","message":"Succeeded updating DataDefinitions for DataEntity","status":"SUCCEEDED"}, {"objectType":"DataEntity -INTERNAL","objectId":"3684","name":"EMPLOYEES","message":"Metadata update for Datafields belonging to INTERNAL DataEntity:EMPLOYEES, Entity Id:3684 is in progress..","status":"SUCCEEDED"}, {"objectType":"in finding DataField","objectId":"112270","name":"MANAGER_ID","message":"Succeeded in finding field","status":"SUCCEEDED"}, {"objectType":"in updating DataDefinitions for DataField","objectId":"112270","name":"MANAGER_ID","message":"Succeeded updating DataDefinitions for DataField","status":"SUCCEEDED"}]

```

## POST /entity/v1/inferEntityRelations/{entityIds}

Infers relationships for the entity Ids provided. Each invocation will result in zero or more relationships being added to Podium metadata. If a relationship has already been inferred (or the request has already been run), the result will show that "0" relationships have been persisted.

### Swagger Notes:

{entityIds} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/inferEntityRelations/{entityIds}

Parameter Name	Is Optional	Description
entityIds	No	A comma separated list of internal entity ids.

Return Type	Description
ResultInfo	JSON summarizing rule, arguments and ResultInfo indicating number of relations persisted.

#### Sample Call:

http://podiumhost:8080/podium/entity/v1/inferEntityRelations/912

#### Sample Response:

"2019-01-02 16:16:32.028: Inferring relation 'CASE\_INSENSITIVE\_FIELD\_NAME\_MATCH' with arguments '--ignore-types BOOLEAN'. 2019-01-02 16:20:35.107: Persisted 1 relations for pd\_entity "

## PUT /entity/v1/loadDataForEntities/{bDoAsync}

Loads data for external entities and persists load log entry against each data load for external entity and returns an array of load logs recorded against each data load. The load date is a user-defined date; users are able to enter a date/time in the past, present, or future.

### Swagger Notes:

**{bDoAsync}** is a Boolean value

**\*Note:** If a user selects the "Example Value" to the right of the Swagger screen, more attributes than are necessary populates **{dataLoadInfos}** window; the only required attributes are "loadTime" and "entityId"

#### example payload:

```
[{"loadTime":"2018-02-12T15:37:24.000Z","entityId":313}, {"loadTime":"2018-02-12T15:37:24.000Z","entityId":712}]
```

[Additional parameters have been added in Podium 3.3 to support Append/Overwrite functionality where "loadType" options are "APPEND" and "OVERWRITE", if neither is specified, a NEW partition is created by default]

```
{"loadTime":"2018-05-11T18:30:54.000Z","entityId":3549,"loadType":"APPEND"}
```

**\*\*Note:** If loadTime that already exists is entered, user will receive error, "UNABLE\_TO\_LAUNCH\_DATA\_LOAD\_JOB\_AS\_LOAD\_ALREADY\_EXIST"

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/loadDataForEntities/{bDoAsync}

Parameter Name	Is Optional	Description
dataLoadInfo	No	DataLoadInfo instance with entity and load info
bDoAsync	No	A Boolean value to indicate whether data for entity is to be loaded synchronously or asynchronously

Return Type	Description
DataLoadInfo[]	JSON for array of load logs

#### Sample Call:

http://192.168.126.26:8081/podiumstg/entity/v1/loadDataForEntities/true

#### Sample Payload:

```
[{"loadTime":"2018-02-11T15:37:24.000Z","entityId":313}, {"loadTime":"2018-02-11T15:37:24.000Z","entityId":712}]
```

#### Postman Request for PUT entity/v1/loadDataForEntities

#### Sample Response: (partial)

```
[{"id":118,"version":0,"lastUpdTs":1518455424336,"timeZoneOffset":0,"loadTime":1518363444000,"startTime":null,"endTime":null,"status":"INITIALIZED","orderSize":0,"recordCount":0,"deliveryId":"briansdupptest.NTT2.20180211153724","infoMessage":null,"sampleRecordCount":0,"loadTimeInMillis":1518363444000,"entityId":313,"sourceName":"briansdupptest","sourceId":220,"entityName":"NTT2","goodRecordCount":0,"badRecordCount":0,"uglyRecordCount":0,"chaffRecordCount":0,"expectedRecordCount":0,"loadType":"DATA","workorderProp":0}, {"id":1438,"version":0,"createdTs":1518455424345,"createdBy":"podium","lastUpdTs":1518455424345,"modifiedBy":"podium","timeZoneOffset":0,"name":"enable.profiling","value":"true"}, ...]
```

## GET /entity/v1/loadLogDetail/{logId}

Returns details of data load log.

### Swagger Notes:

Load log ids can be obtained by running: GET entity/v1/loadLogs/{entityIds}

{logId} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/loadLogDetail/{logId}

Parameter Name	Is Optional	Description
logId	No	Data load log id

Return Type	Description
DataLoadInfo	JSON for data load log

#### Sample Call:

http://podiumhost/podium/entity/v1/loadLogDetail/1092

#### Sample Response:

```
{
  "id": 39,
  "version": 7,
  "lastUpdT": 1477579540847,
  "timeZoneOffset": -14400000,
  "loadTime": 1477579456000,
  "startTime": 1477579461403,
  "endTime": 1477579533737,
  "status": "FINISHED",
  "orderSize": 0,
  "recordCount": 2,
  "deliveryId": "postgres_anu.pd_scheduled_job.20161027104416",
  "infoMessage": "2016-10-27 10:44:21.403: Starting job: postgres_anu.pd_scheduled_job.20161027104416\n2016-10-27 10:44:21.403: Started loading into dock/archive.\n2016-10-27 10:44:21.843: Finished loading into dock/archive.\n2016-10-27 10:44:21.844: Started loading into receiving.\n2016-10-27 10:44:29.589: Finished loading into receiving.\n2016-10-27 10:44:29.590: Started profile merging.\n2016-10-27 10:44:47.501: Finished profile merging.\n2016-10-27 10:44:47.505: Started profile persistence.\n2016-10-27 10:44:51.063: Finished profile persistence.\n2016-10-27 10:44:51.064: Started record count reconciliation.\n2016-10-27 10:44:51.064: Finished record count reconciliation.\n2016-10-27 10:44:51.064: Started dataset date update.\n2016-10-27 10:44:51.064: Finished dataset date update.\n2016-10-27 10:44:51.065: Started setting posix permissions.\n2016-10-27 10:44:51.297: Finished setting posix permissions.\n2016-10-27 10:44:51.298: Started exposing data via partition addition.\n2016-10-27 10:45:17.399: Finished exposing data via partition addition.\n2016-10-27 10:45:17.399: Started cleanup operation.\n2016-10-27 10:45:33.737: Data file from loading dock directory for current load deleted.\n2016-10-27 10:45:33.737: Finished job: postgres_anu.pd_scheduled_job.20161027104416\n",
  "loadTimeInMillis": 1477579456000,
  "entityId": 254,
  "sourceName": "postgres_anu",
  "sourceId": 8,
  "entityName": "pd_scheduled_job",
  "goodRecordCount": 2,
  "badRecordCount": 0,
  "uglyRecordCount": 0,
  "chaffRecordCount": 0,
  "expectedRecordCount": 0,
  "workOrderProp": [
    {
      "id": 980,
      "version": 0,
      "createdTs": 1477579466468,
      "createdBy": "ANONYMOUS",
      "lastUpdT": 1477579466468,
      "modifiedBy": "ANONYMOUS",
      "timeZoneOffset": -14400000,
      "name": "dock.uri",
      "value": "hdfs://bambi.podiumdata.com:8020/tmp/anu/build/loadingdock/postgres_anu/pd_scheduled_job/20161027104416/*"
    },
    {
      "id": 624,
      "version": 0,
      "createdTs": 1477579461384,
      "createdBy": "userOne",
      "lastUpdT": 1477579461384,
      "modifiedBy": "userOne",
      "timeZoneOffset": -14400000,
      "name": "enable.profiling",
      "value": "true"
    },
    {
      "id": 623,
      "version": 0,
      "createdTs": 1477579461376,
      "createdBy": "userOne",
      "lastUpdT": 1477579461376,
      "modifiedBy": "userOne",
      "timeZoneOffset": -14400000
    }
  ]
}
```

## GET /entity/v1/loadLogs/{entityIds}

Returns collections of load logs for external entities ordered by name. Returned list may contain just key attributes for load log. In order to get load log details an additional call can be made to

'GET entity/v1/loadLogDetail/{logId}' by using data log id from response collection.

- Provides pagination support via optional parameters.
- Provides sorting support via optional parameters

### Swagger Notes:

**{entityIds}** is the only required parameter

**Sort attribute options {sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/loadLogs/{entityIds}/?  
count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}

Parameter Name	Is Optional	Description
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
entityIds	No	An array of one or more external entity ids

Return Type	Description
SubList<DataLoadInfo>	JSON for collection of data logs

#### Sample Call:

http://podiumhost/podium/entity/v1/loadLogs/2?sortAttr=loadTime&sortDir=ASC

#### Sample Response:

```
{
  "subList": [
    {
      "id": 5,
      "version": 4,
      "lastUpdTs": 1476889927572,
      "timeZoneOffset": -14400000,
      "loadTime": 1476889909000,
      "startTime": 1476889911615,
      "endTime": 1476889927568,
      "status": "FINISHED",
      "orderSize": 0,
      "recordCount": 10,
      "deliveryId": "<SOURCE_NAME>.<ENTITY_NAME>.20161019151149",
      "infoMessage": "2016-10-19 11:11:51.615: Starting job: HRanu.JOB_HISTORY.20161019151149\n2016-10-19 11:11:51.615: Started loading into dock/archive.\n2016-10-19 11:11:53.559: Finished loading into dock/archive.\n2016-10-19 11:11:53.559: Started loading into receiving.\n2016-10-19 11:11:56.392: Finished loading into receiving.\n2016-10-19 11:11:56.392: Started profile merging.\n2016-10-19 11:11:59.034: Finished profile merging.\n2016-10-19 11:11:59.036: Started profile persistence.\n2016-10-19 11:11:59.385: Finished profile persistence.\n2016-10-19 11:11:59.386: Started record count reconciliation.\n2016-10-19 11:11:59.386: Finished record count reconciliation.\n2016-10-19 11:11:59.386: Started dataset date update.\n2016-10-19 11:11:59.386: Finished dataset date update.\n2016-10-19 11:11:59.386: Started setting posix permissions.\n2016-10-19 11:11:59.402: Finished setting posix permissions.\n2016-10-19 11:11:59.403: Started exposing data via partition addition.\n2016-10-19 11:12:07.486: Finished exposing data via partition addition.\n2016-10-19 11:12:07.486: Started cleanup operation.\n2016-10-19 11:12:07.567:"
    }
  ]
}
```



```
Data file from loading dock directory for current load deleted.\n2016-10-19 11:12:07.567:
Finished job:
HRanu.JOB_HISTORY.20161019151149\n", "loadTimeInMillis":1476889909000, "entityId":2, "sourceName":
"HRanu", "sourceId":2, "entityName":"JOB_HISTORY", "goodRecordCount":10, "badRecordCount":0, "
uglyRecordCount":0, "chaffRecordCount":0, "expectedRecordCount":0, "workorderProp":
[{"id":127, "version":0, "createdTs":1476889916646, "createdBy":"ANONYMOUS", "lastUpdTs":1476889
916646, "modifiedBy":"ANONYMOUS", "timeZoneOffset":-
14400000, "name":"dock.uri", "value":"hdfs://bambi.podiumdata.com:8020/tmp/anu/build/loadingdo
ck/HRanu/JOB_HISTORY/20161019151149/*"},
{"id":23, "version":0, "createdTs":1476889911612, "createdBy":"podium", "lastUpdTs":147688991161
2, "modifiedBy":"podium", "timeZoneOffset":-
14400000, "name":"enable.profiling", "value":"true"},
{"id":21, "version":0, "createdTs":1476889911609, "createdBy":"podium", "lastUpdTs":147688991160
9, "modifiedBy":"podium", "timeZoneOffset":-
14400000, "name":"enable.validation", "value":"true"},
{"id":59, "version":null, "timeZoneOffset":-
14400000, "name":"entityProp.dataset.date.time.extraction.argument", "value":null},
{"id":63, "version":null, "timeZoneOffset":-
14400000, "name":"entityProp.dataset.date.time.extraction.method", "value":null},
{"id":80, "version":null, "timeZoneOffset":-
```

## GET /entity/v1/sampleData/{entId}

Returns Sample data for a single entity.

### Swagger Notes:

{entId} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/sampleData/{entId}?useLatestLoad=true&sampleCount=recordCount

Parameter Name	Is Optional	Description
entId	No	Entity id
useLatestLoad	Yes	Parameter allows user to select all or latest load for sample data. Default is true.
sampleCount	Yes	Count for sample records. Default count is 10.

Return Type	Description
DataFieldSampleData	JSON for sample data of entity

#### Sample Call:

http://podiumdatahost:8080/podium/entity/v1/sampleData/22

#### Sample Response:

```
{
  "fields": [
    {
      "id": 108, "version": 0, "createdTs": 1477317996734, "createdBy": "podium", "lastUpdT": 1477317996734, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "aggregator_nid", "businessName": null, "businessDescription": null, "index": 0, "dataTypeName": "int8", "techDescription": null, "internalDataType": "INTEGER", "notNull": true, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
        {
          "id": 55, "version": 0, "createdTs": 1477317996738, "createdBy": "podium", "lastUpdT": 1477317996738, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "field.sensitive", "value": "false"
        }
      ], "fieldDefs": [], "fieldTags": [
        {
          "id": 110, "version": 0, "createdTs": 1477317996742, "createdBy": "podium", "lastUpdT": 1477317996742, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "expression", "businessName": null, "businessDescription": null, "index": 1, "dataTypeName": "text", "techDescription": null, "internalDataType": "STRING", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
            {
              "id": 57, "version": 0, "createdTs": 1477317996745, "createdBy": "podium", "lastUpdT": 1477317996745, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "field.sensitive", "value": "false"
            }
          ], "fieldDefs": [], "fieldTags": [
            {
              "id": 109, "version": 0, "createdTs": 1477317996740, "createdBy": "podium", "lastUpdT": 1477317996740, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "idx", "businessName": null, "businessDescription": null, "index": 2, "dataTypeName": "int4", "techDescription": null, "internalDataType": "INTEGER", "notNull": true, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
                {
                  "id": 56, "version": 0, "createdTs": 1477317996741, "createdBy": "podium", "lastUpdT": 1477317996741, "modifiedBy": "podium", "timeZoneOffset": -14400000, "name": "field.sensitive", "value": "false"
                }
              ]
            }
          ], "enclosureIncidence": null
        }
      ], "rows": []
    }
  ]
}
```

## PUT /entity/v1/updateLevel/{entityIds}/{entityLevel}

### Swagger Notes:

{entityIds} and {entityLevel} are the only required parameters

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/updateLevel/{entityIds}/{entityLevel}

Parameter Name	Is Optional	Description
entityIds	No	Entity ids to be promoted/demoted
entityLevel	No	Data conductor type to promote or demote an entity to desired level

Return Type	Description
ObjectUpdateResult	ObjectUpdateResult JSON containing details of object Upgrade

#### Sample Call:

http://podiumdatahost:8080/podium/entity/v1/updateLevel/31720,31251/MANAGED

#### Sample Response:

```
{
  "BANK_ADDITIONAL": true,
  "pd_entity": true }
```

## PUT /entity/v1/updateProperties/{id}

Persists properties for an entity and returns the entity with the persisted and updated properties or an error code if some issue was encountered during persistence. Please note entity level property will not be updated through this call. If attempted, it will be ignored.

### Swagger Notes:

It is recommended not to click into '**Example Value**' on the right of the Swagger interface and/or delete the JSON example that populates into props it populates. It is recommended to get the full JSON payload as described below with call: GET /entity/v1/byId/{ids} and make changes to that JSON response to create payload. Note that **only** the JSON 'props' including square bracket start ( [ ) to square bracket end ( ] ) should be included in payload or the update will fail. Only property values (not names) can be updated through this call.

#### Note:

**If you do not include all the existing properties for the source (those included after 'props') they will be deleted and only the properties sent in the request will remain.** This is true for both Swagger and other REST Client tool methods.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/updateProperties/{id}

Parameter Name	Is Optional	Description
id	No	Entity id
props	No	Collection of entity properties that is to be persisted

#### Payload:

JSON representation of collection of entity properties to be persisted. One way to obtain the JSON payload is to run the call: GET /entity/v1/byId/{ids} which returns a collection of JSON for the entity associated with provided id/ids. Note that only the JSON 'props' including square bracket start ( [ ) to square bracket end ( ] ) is included in payload. Only property values (not names) can be updated through this call.

Return Type	Description
DataEntity	JSON for entity

#### Sample Call:

http://podiumhost:8081/podiumstg/entity/v1/updateProperties/9

#### Sample Payload:

```
[{"id":622,"version":0,"createdTs":1490956113931,"createdBy":"podium","lastUpdT":1490956113931,"modifiedBy":"podium","timeZoneOffset":0,"name":"original.name","value":"pd_data_meterNEWNAME"},
{"id":625,"version":0,"createdTs":1490956118407,"createdBy":"ANONYMOUS","lastUpdT":1490956118407,"modifiedBy":"ANONYMOUS","timeZoneOffset":0,"name":"authorization.hive.policy.id","value":"Podium.postgre.pd_data_meter"},
{"id":624,"version":0,"createdTs":1490956118402,"createdBy":"ANONYMOUS","lastUpdT":1490956118402,"modifiedBy":"ANONYMOUS","timeZoneOffset":0,"name":"authorization.policy.sync.status","value":"UP_TO_DATE"}]
```

#### Sample Response:

```
{"objectType":"DataEntity","id":9,"version":3,"createdTs":1490956113922,"createdBy":"podium","lastUpdT":1492027907664,"modifiedBy":"podium","timeZoneOffset":0,"name":"pd_data_meter","businessName":null,"businessDescription":null,"props":
[{"id":175974,"version":0,"createdTs":1492027907672,"createdBy":"podium","lastUpdT":1492027907672,"modifiedBy":"podium","timeZoneOffset":0,"name":"authorization.hive.policy.id","value":"Podium.postgre.pd_data_meter"},
```

```
{ "id":175973,"version":0,"createdTs":1492027907669,"createdBy":"podium","lastUpdT":1492027907669,"modifiedBy":"podium","timeZoneOffset":0,"name":"authorization.policy.sync.status","value":"UP_TO_DATE"},  
{ "id":175975,"version":0,"createdTs":1492027907680,"createdBy":"podium","lastUpdT":1492027907680,"modifiedBy":"podium","timeZoneOffset":0,"name":"original.name","value":"pd_data_meter  
NEWNAME"}}, {"shortName":null,"threshold":0.1,"entType":"INTERNAL","internalFileFormat":"TEXT_  
TAB_DELIMITED","sourceConnection":null,"entityTags":[]}
```

## PUT /entity/v1/updateTags/{id}

Persists tags for an entity and returns the entity with the persisted and updated tags or an error code if some issue was encountered during persistence.

### Swagger Notes:

It is recommended not to click into "Example Value" on the right of the Swagger interface. Delete the JSON example if it populates into payload field. The example JSON includes more properties/attributes than are required.

The only JSON payload required to update tags are the tag values.

**example:**

```
["string1","string2"]
```

**{id}** is the only other required parameter

### REST Client tool guide:

#### Resource URL:

```
http://<podiumHost>/podium/entity/v1/updateTags/{id}
```

Parameter Name	Is Optional	Description
id	No	Entity id
tags	No	Collection of entity tags that is to be persisted

#### Sample Payload:

JSON representation of collection of entity tags to be persisted

Return Type	Description
DataEntity	JSON for entity

#### Sample call:

```
http://<podiumHost>/podium/entity/v1/updateTags/10613
```

#### Sample payload:

```
[{"tag": "DIVISION"}, {"tag": "q3"}]
```

#### Sample Response: (partial)

```
{
  "objectType": "DataEntity",
  "id": 10613,
  "version": 5,
  "createdTs": 1490987040955,
  "createdBy": "qau ser1",
  "lastUpdTs": 1491181424464,
  "modifiedBy": "podium",
  "timeZoneOffset": -14400000,
  "name": "y7",
  "businessName": null,
  "businessDescription": null,
  "props": [
    {
      "id": 2196899,
      "version": 0,
      "createdTs": 1491062217842,
      "createdBy": "ccuser",
      "lastUpdTs": 1491062217842,
      "modifiedBy": "ccuser",
      "timeZoneOffset": -14400000,
      "name": "authorization.hdfs.policy.id",
      "value": "4968"
    },
    {
      "id": 2196890,
      "version": 0,
      "createdTs": 1491062217799,
      "createdBy": "ccuser",
      "lastUpdTs": 1491062217799,
      "modifiedBy": "ccuser",
      "timeZoneOffset": -14400000,
      "name": "authorization.hive.policy.id",
      "value": "4967"
    },
    {
      "id": 2196893,
      "version": 0,
      "createdTs": 1491062217818,
      "createdBy": "ccuser",
      "lastUpdTs": 1491062217818,
      "modifiedBy": "ccuser",
      "timeZoneOffset": -14400000,
      "name": "authorization.policy.sync.status",
      "value": "UP_TO_DATE"
    },
    {
      "id": 2196901,
      "version": 0,
      "createdTs": 1491062217854,
      "createdBy": "ccuser",
      "lastUpdTs": 1491062217854,
      "modifiedBy": "ccuser",
      "timeZoneOffset": -14400000,
      "name": "biz.date.def.java.class",
      "value": ""
    },
    ...
  ]
}
```

## GET /entity/v1/withparentInfo/{ids}

Returns a collection of JSON for entity with parent source information

### Swagger Notes:

**{ids}** is the only required parameter, the id for the entity(s) not the parent object

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/withParentInfo/{entityIds}

Parameter Name	Is Optional	Description
ids	No	id(s) of entity objects

Return Type	Description
List <Entity>	JSON for entity, child fields, and parent source

#### Sample Request:

http://<podiumhost>/podium/entity/v1/withParentInfo/129

#### Sample Response:

```
[{"entity":
{"objectType":"DataEntity","id":129,"version":1,"createdTs":1477318004057,"createdBy":"podium","lastUpdT":1477318004115,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"pd_field_profile_summary","businessName":null,"businessDescription":null,"props":
[{"id":4362,"version":0,"createdTs":1477318004058,"createdBy":"podium","lastUpdT":1477318004058,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"original.name","value":"pd_field_profile_summary"}],"shortName":null,"threshold":0.1,"entType":"INTERNAL","internalFileFormat":"TEXT_TAB_DELIMITED","entityTags":[]},"parentInfo":
{"id":5,"name":"pdmcr_anu","objType":"DataSource","parentInfo":
{"id":1,"name":"DEFAULT","objType":"SourceHierarchy","parentInfo":null}}}]
```

## POST /entity/v2/createFromCopyBook

Supports creation of source/entities via copybook and FDL

- Takes copybook (multipart file/s ) as input
- Takes a subset of FDL (multipart file) to provide source information as input
- Creates and loads the data for new hierarchy/source and entity (or entities)
- Loads new entity data for existing hierarchy/source
- Saves the uploaded FDL on the created entity in entity property 'entity.fdl'
- Associates the newly created entities to specified groups

### Swagger Notes:

Entity creation from copybook is relatively straightforward with Swagger. Users will note embedded parameters are easier to work with than manually defining them in the body of traditional API tools.

The 'v2' version requires **{groupIds}**, **{sourceConnId}**, and **{entityLevel}** parameters

Upload **Copybook** file

Upload **FDL** file

#### Note:

Signature change between v1 and v2: 'createEntityFromCopybook' → 'createFromCopyBook'

**{groupIds}** can be found by using: GET /security/group/v1/groupsByUser

**{sourceConnId}** can be found by using: GET /srcConnection/v1/getConnections

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v2/createFromCopyBook

Parameter Name	Is Optional	Description
fdlFile	No	Multipart file containing valid data definition to create Hierarchy/Source and Entity file path. If the source with the given name exists, new entities will be added to existing source.
cpBookFile	No	Multipart file containing valid data definition to create entities for Mainframe source.
groupIds	No	Accepts array of type long[], comprised of valid group ids to be associated with the created entities (Internal and external)
sourceConnId	No	Source Connection Id
entityLevel	No	Data Conductor Level to be set for the entity. If not provided, One defined at source/system level is used in case of existing/new sources respectively. Also applicable to the source if it is newly created with this call.

Return Type	Description
ResultInfo	JSON for ResultInfo containing the newly created source or updated source info along with newly created entity info for successful metadata creation. It may also contain information like: -An entity already existed so new entity creation got skipped -Error string with details explaining why error occurred.

#### Sample Call:

http://<hostname.com:port>/podium/entity/v2/createFromCopyBook

#### Sample Request Instructions:

In **Body** Tab, specify all appropriate parameters

#### Postman Request/Response for POST entity/v2/createFromCopyBook



POST http://jungle-podium.corp.podiumdata.com:8081/podiumstg/entity/v2/createFromCopyBook URL Params Send Save

Key	Value	Description
New key	Value	Description

Authorization Headers **Body** Pre-request Script Tests Code

form-data x-www-form-urlencoded raw binary

Key	Value	Description
<input checked="" type="checkbox"/> fdFile	Choose Files jungle-fileMF_postman3.txt	
<input checked="" type="checkbox"/> cpBookFile	Choose Files LOANS-A-no-header-trailer.copybook copy.txt	
<input checked="" type="checkbox"/> groupIds	1	
<input checked="" type="checkbox"/> sourceConnId	8	
<input checked="" type="checkbox"/> entityLevel	MANAGED	
New key	Value	Description

Body Cookies (5) Headers (9) Test Results Status: 200 OK Time: 4962 ms

Pretty Raw Preview

```
[{"objectType":"","objectId":"","name":"","message":"Successfull in reading input multipart request","status":"INFO"}, {"objectType":"DataSource","objectId":"537","name":"mainframe_src_postman_MF_tst01","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"734","name":"LOAN","message":"Successfully created","status":"SUCCEEDED"}]
```

FDL should be in below format:

```
#####
##### FILE INFO #####
#####
# Source system name. In case of hierarchical name use '.' to separate elements e.g.
SRC1.SRC1SUB1.SRC1SUB1SUB2. Required attribute and a value must be provided.
src.sys.name=TP.mainframe_src_postman_MF_tst01
# Type of source system - sample valid values are: FILE, SQLSERVER, ORACLE, MAINFRAME etc.
src.sys.type=MAINFRAME
# Inbound communication protocol - sample valid values are: ftp, file, jdbc etc.
src.comm.protocol=file
# Entity name - name of the source file name to uniquely identify this data set within the
system. Required attribute and a value must be provided.
src.entity.name=test70ML_ent_mf
# GLOB matching the file pattern associated with this entity. Required attribute and a
value must be provided.
src.file.glob=/podiumshare/datasets/datafile/CDLMainFrame/LocalFile/loan.data.ebcdic
```

### Sample Response:

```
[{"objectType":"","objectId":"","name":"","message":"Successfull in reading input multipart request","status":"INFO"}, {"objectType":"DataSource","objectId":"6","name":"newMFAPISrc","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"28","name":"LOAN","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"27","name":"HEADER","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"26","name":"AUTO-LOAN","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"30","name":"HOME-LOAN","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"25","name":"EDUC-LOAN","message":"Successfully created","status":"SUCCEEDED"}, {"objectType":"DataEntity","objectId":"29","name":"TRAILER","message":"Successfully created","status":"SUCCEEDED"}]
```

## POST /entity/v2/createFromFlatFile

Supports creation of source/entities via FDL (simulates CLI IdMeta Command).

- Takes multipart file as input
- Creates and loads the data for new hierarchy/source and entity (or entities)
- Loads new entity data for existing hierarchy/source
- Saves the uploaded FDL on the created entity in entity property 'entity.fdl'
- Associates the newly created entities to the specified groups

### Swagger Notes:

Entity creation from FlatFile is relatively straightforward with Swagger. Users will note embedded parameters are easier to work with than manually defining them in the body of traditional API tools.

The 'v2' version requires **{groupIds}**, **{sourceConnId}**, and **{entityLevel}** parameters

Upload **FDL** file

#### Note:

Signature change between v1 and v2: 'createEntityFromFDL' → 'createFromFlatFile'

**{groupIds}** can be found by using: GET /security/group/v1/groupsByUser

**{sourceConnId}** can be found by using: GET /srcConnection/v1/getConnections

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v2/createFromFlatFile

Payload Parameter Name	Is Optional	Description
file	No	Multipart file containing valid data definition to create hierarchy/source and entities in the source with valid fields. If the source with the given name exists, new entities will be added to existing source.
groupIds	No	Accepts array of type long[], comprised of valid group ids to be associated with the created entities(Internal and external)
sourceConnId	No	Source Connection Id
entityLevel	No	Data Conductor Level to be set for the entity. If not provided, One defined at source/system level is used in case of existing/new sources respectively. Also applicable to the source if it is newly created with this call. Options: 'ADDRESSED', 'REGISTERED', 'MANAGED'

Return Type	Description
ResultInfo	JSON for ResultInfo containing the newly created source or updated source info along with newly created entity info for successful metadata creation. It might also contain information like: -Some entity was already there so new entity creation got skipped -Error string with details explaining why error occurred.

#### Sample Call:

http://jungle-podium.corp.podiumdata.com:8080/podium/entity/v2/createFromFlatFile

#### Sample Request Instructions:

In **Body** Tab, specify all appropriate parameters

#### Postman Request/Response for POST entity/v2/createFromFlatFile

The screenshot shows the Postman REST client interface. At the top, there are three tabs for different environments, all pointing to 'http://jungle-podium.'. The main area is set to a POST request to 'http://jungle-podium.corp.podiumdata.com:8080/podium/entity/v2/createFromFlatFile'. The 'Body' tab is selected, and the 'form-data' radio button is chosen. A table of form data is displayed, with 'Key' and 'Value' columns circled in red. The table contains the following entries:

Key	Value	Description
file	Choose Files jungle_enginePostman copy.txt	
groupIds	1	
sourceConnId	219	
entityLevel	MANAGED	

Below the form data, the 'JSON' tab is selected, showing the response body in a pretty-printed format:

```

1  [
2  {
3      "objectType": "DataSource",
4      "objectId": "2825",
5      "name": "new_FFsrcEngPM2",
6      "message": "successfully found/created",
7      "status": "SUCCEEDED"
8  },
9  {
10     "objectType": "DataEntity -External",
11     "objectId": "33085",
12     "name": "ac_new_eng2",
13     "message": "successfully created",
14     "status": "SUCCEEDED"
15  }

```

### Sample Response (JSON):

```
[{"objectType": "DataSource", "objectId": "36", "name": "API_TEST03_FDLsrc01a", "message": "successfully found/created", "status": "SUCCEEDED"}, {"objectType": "DataEntity -External", "objectId": "56", "name": "API_TEST03_ENT01", "message": "successfully created", "status": "SUCCEEDED"}]
```

## POST /entity/v2/updateProperty/{id}

Updates single property identified by propName for an entity with specified propValue and returns the entity.

### Swagger Notes:

Swagger differs from the REST Client tool by providing JSON in the payload rather than signature request

**{id}** is required parameter

**{property}** is required JSON payload to update the property providing property name and value.

#### example:

```
{"name": "p1", "value": "jhc1" }
```

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/entity/v1/updateProperty/{id}/{propName}/{propValue}/

Parameter Name	Is Optional	Description
id	No	Entity id
propName	No	Property name that is to be persisted or updated
propValue	No	Property value to be persisted or updated

Return Type	Description
DataEntity	JSON for entity

#### Sample Call:

http://podiumhost:8080/podium/entity/v1/updateProperty/32432/p1/jhc

#### Sample Response:

```
{
  "objectType": "DataEntity",
  "id": 32432,
  "version": 1,
  "createdTs": 1517422016829,
  "createdBy": "ccuser",
  "lastUpdTs": 1517541224359,
  "modifiedBy": "podium",
  "timeZoneOffset": 0,
  "name": "double",
  "businessName": null,
  "businessDescription": null,
  "props": [
    {
      "id": 3710865,
      "version": 0,
      "createdTs": 1517541224375,
      "createdBy": "podium",
      "lastUpdTs": 1517541224375,
      "modifiedBy": "podium",
      "timeZoneOffset": 0,
      "name": "p1",
      "value": "jhc"
    }
  ],
}
```

## Export Controller

### GET /metadataExport/v1/dataflows/{dataflowIdList}

Exports the workflow to a zip containing all the metadata for the workflow.

#### Swagger Notes:

**\*\*Important!:** Follow Implementation Notes workaround in Swagger regarding *import* of Dataflow metadata file. The workaround is detailed in each export call: [ **workaround:** The file that you download from Swagger when running this request, generates an error when you try to use it with the corresponding Import API request. To workaround this, after sending the Export request, copy the Request URL that results from sending the request. Paste this URL into the Address Bar of a separate browser tab and hit the Enter key. This causes a separate file to be downloaded which can then be used in the Import API request.]

One way to get **{dataflowIdList}** is to run: GET/transformation/v1/getDataflowId

**Note:** DataFlows (formerly Workflows) refers to graph created in Prepare Module. Use of Workflows as object name is deprecated.

#### REST Client tool guide:

##### Resource URL:

http://<podiumHost>/podium/metadataExport/v1/dataflows/{dataflowIdList}

Parameter Name	Is Optional	Description
dataflowIdList	No	Dataflow Ids (comma separated list for multiple Ids)

Return Type	Description
Attachment	Zip file containing requested dataflow metadata files example: "attachment;filename=PodiumMetadataExport_1518212088591.zip."

##### Sample Call:

http://<podiumHost>/podium/metadataExport/v1/workflows/5,7

##### Return Type:

Zip file containing requested source metadata files.

## GET /metadataExport/v1/entities/{entityIdList}

Exports the source as well as entity data for the requested entities

Entities can belong to different sources. All the entity metadata along with the source metadata is exported to a zip file, which can be imported in another environment

Only External Entities can be exported.

### Swagger Notes:

**\*\*Important!:** Follow Implementation Notes in Swagger regarding *import* of Entity metadata file: [ **workaround:** The file that you download from Swagger when running this request, generates an error when you try to use it with the corresponding Import API request. To workaround this, after sending the Export request, copy the Request URL that results from sending the request. Paste this URL into the Address Bar of a separate browser tab and hit the Enter key. This causes a separate file to be downloaded which can then be used in the Import API request.]

One way to get {entityIdList} is to run: GET /entity/v1/getEntities using {sortAttr} on 'id'

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/metadataExport/v1/entities/{entityIdList}

Parameter Name	Is Optional	Description
entityIdList	No	EntityIds (comma separated list for multiple Ids)

Return Type	Description
Attachment	Zip file containing requested entities and corresponding sources metadata files example: "attachment;filename=PodiumMetadataExport_2078212088591.zip."

#### Sample Call:

http://<podiumHost>/podium/metadataExport/v1/entities/20,28,97

#### Return Type:

Zip file containing requested source metadata files.

## GET /metadataExport/v1/publishJobs/{publishIdList}

Allows admin user to export podium publish jobs. Downloads a multipart file containing JSON and other podium export required format details for requested object which can be imported in another environment

### Swagger Notes:

**\*\*Important!:** Follow Implementation Notes in Swagger regarding *import* of Entity metadata file: [ **workaround:** The file that you download from Swagger when running this request, generates an error when you try to use it with the corresponding Import API request. To workaround this, after sending the Export request, copy the Request URL that results from sending the request. Paste this URL into the Address Bar of a separate browser tab and hit the Enter key. This causes a separate file to be downloaded which can then be used in the Import API request.]

**Hint:** to find Publish Ids for {publishIdList} through the UI, select a load log for a Publish job, the Publish Id appears in the browser URI after publish-logs sections

 [junebug.corp.podiumdata.com:8080/podium/#/publish/publish-logs/20](http://junebug.corp.podiumdata.com:8080/podium/#/publish/publish-logs/20)

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/metadataExport/v1/publishJobs/{publishIdList}

Parameter Name	Is Optional	Description
publishIdList	No	PublishIds (comma separated list for multiple Ids)

Return Type	Description
Attachment	Zip file containing requested publish job metadata files example: "attachment;filename=PodiumMetadataExport_2078212088591.zip."

#### Sample Call:

http://<podiumHost>/podium/metadataExport/v1/publishJobs/365

#### Return Type:

Zip file containing requested source metadata files.

## GET /metadataExport/v1/sources/{sourceIdList}

Allows admin user to export podium sources along with entities, fields and other associations like Groups. Downloads a multipart file containing JSON and other podium export required format details for requested source objects. Sources can belong to different Hierarchies.

Only External Sources can be exported.

### Swagger Notes:

**\*\*Important!:** Follow Implementation Notes in Swagger regarding *import* of Source metadata file. [ **workaround:** The file that you download from Swagger when running this request, generates an error when you try to use it with the corresponding Import API request. To workaround this, after sending the Export request, copy the Request URL that results from sending the request. Paste this URL into the Address Bar of a separate browser tab and hit the Enter key. This causes a separate file to be downloaded which can then be used in the Import API request.]

One way to get {sourceIdList} is to run: `GET /source/v1/getSources` using {sortAttr} on 'id'

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/metadataExport/v1/sources/{SourceIdList}`

Parameter Name	Is Optional	Description
sourceIdList	No	Source Ids (comma separated list for multiple Ids)

Return Type	Description
Attachment	Zip file containing requested source metadata files example: "attachment;filename=PodiumMetadataExport_2078212088591.zip."

#### Sample Call:

`http://<podiumHost>/podium/metadataExport/v1/sources/4,8`

#### Return Type:

Zip file containing requested source metadata files.



## Field Controller

### GET /field/v1/byEntityWithProfileSummary/{entId}

Returns profile summary for fields of specified entity (by id)

Only Internal Entities **{entId}** are valid for this call.

#### Swagger Notes:

**{entId}** is the only required parameter

#### REST Client tool guide:

##### Resource URL:

`http://<podiumHost>/podium/field/v1/byEntityWithProfileSummary/{EntId}count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}`

Parameter Name	Is Optional	Description
entId	No	Entity id for which field profiles are requested
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid value: INTERNAL

Return Type	Description
List <profile summary>	JSON for collection of field profile values

##### Sample Request:

`http://<podiumhost>/podium/field/v1/byEntityWithProfileSummary/2326`

##### Sample Response:

```
{
  "subList": [
    {
      "id": 43313,
      "version": 1,
      "lastUpdTs": 1456771323083,
      "timeZoneOffset": -14400000,
      "name": "ACTDESC",
      "businessName": null,
      "businessDescription": null,
      "dataTypeName": "STRING",
      "techDescription": null,
      "internalDataType": "STRING",
      "length": 20,
      "precision": -1,
      "notNull": true,
      "encryptedAtSrc": false,
      "doEncrypt": false,
      "key": false,
      "isfKey": false,
      "doIgnore": false,
      "validationPattern": null,
      "dataEntity": null,
      "parentEntityName": "ACT",
      "parentSourceName": "pk_db2_USER",
      "parentEntityId": 2326,
      "parentSourceId": 522,
      "scale": -1,
      "index": 2,
      "dataType": "STRING",
      "trimRight": true,
      "trimLeft": false,
      "validationPatternIsRegex": false,
      "nullifPattern": null,
      "nullifPatternIsRegex": false,
      "parentEntityType": "INTERNAL",
      "parentSourceType": "PODIUM_INTERNAL",
      "minValue": "ADM DATA BASES",
      "maxValue": "WRITE SPECS",
      "totalCount": 18,
      "nullCount": 0,
      "notNullCount": 18,
      "surveyType": "census",
      "surveyExcludeNullCount": 18,
      "cardinalityExcludeNull": 18,
      "deliveryId": "pk_db2_USER.ACT.20160301134019",
      "surveyIncludeNullCount": 18,
      "cardinalityIncludeNull": 18,
      "percentNulls": "0.0%",
      "cardinality": "18"
    }
  ]
}
```

## GET /field/v1/byId/{ids}

Returns a collection of JSON for fields associated with provided id/ids.

### Swagger Notes:

Field **{ids}** is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/byId/{ids}

Return Type	Description
List<DataField>	JSON for collection of fields

#### Sample Call:

http://<podiumHost>/podium/field/v1/byId/290

#### Sample Response:

```
[{"id":290,"version":0,"createdTs":1477317997759,"createdBy":"podium","lastUpdTs":1477317997759,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"log","businessName":null,"businessDescription":null,"index":5,"dataTypeName":"text","techDescription":null,"internalDataType":"STRING","notNull":false,"encryptedAtSrc":false,"doEncrypt":false,"key":false,"isfKey":false,"validationPattern":null,"validationPatternIsRegex":false,"nullifPattern":null,"nullifPatternIsRegex":false,"threshold":0.1,"fieldPr ops":{"id":237,"version":0,"createdTs":1477317997760,"createdBy":"podium","lastUpdTs":1477317997760,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.sensitive","value":"false"}},{"fieldDefs":[],"fieldTags":[],"enclosureIncidence":null}]
```

## GET /field/v1/byParentId/{entityId}

Returns collection of DataFieldBasicInfo which gives all basic information about the field/s for the requested entity Id

### Swagger Notes:

{entityIds} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumhost>/podium/field/v1/byParentId/{entityId}

Parameter Name	Is Optional	Description
Count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
Start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataFieldBasicInfo>	JSON for collection of fields

#### Sample Call:

http://podiumhost:8080/podium/field/v1/byParentId/10?start=0&sortAttr=name&sortDir=ASC

#### Sample Response:

```
{
  "subList": [
    {
      "id": 50, "version": 0, "lastUpdTs": 1476889899090, "timeZoneOffset": -14400000, "name": "DEPARTMENT_ID", "businessName": null, "businessDescription": null, "dataTypeName": "NUMBER(4,0)", "techDescription": null, "internalDataType": "DOUBLE", "notNull": true, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "DEPARTMENTS", "parentSourceName": "HRanu", "parentEntityId": 10, "parentSourceId": 2, "index": 0, "dataType": "NUMBER(4,0)", "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "EXTERNAL", "parentSourceType": "JDBC_SOURCE"},
    {
      "id": 51, "version": 0, "lastUpdTs": 1476889899092, "timeZoneOffset": -14400000, "name": "DEPARTMENT_NAME", "businessName": null, "businessDescription": null, "dataTypeName": "VARCHAR2(30)", "techDescription": null, "internalDataType": "STRING", "notNull": true, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "DEPARTMENTS", "parentSourceName": "HRanu", "parentEntityId": 10, "parentSourceId": 2, "index": 1, "dataType": "VARCHAR2(30)", "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "EXTERNAL", "parentSourceType": "JDBC_SOURCE"},
    {
      "id": 52, "version": 0, "lastUpdTs": 1476889899094, "timeZoneOffset": -14400000, "name": "LOCATION_ID", "businessName": null, "businessDescription": null, "dataTypeName": "NUMBER(4,0)", "techDescription": null, "internalDataType": "DOUBLE", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "DEPARTMENTS", "parentSourceName": "HRanu", "parentEntityId": 10, "parentSourceId": 2, "index": 3, "dataType": "NUMBER(4,0)", "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "EXTERNAL", "parentSourceType": "JDBC_SOURCE"},
    {
      "id": 53, "version": 0, "lastUpdTs": 1476889899095, "timeZoneOffset": -14400000, "name": "MANAGER_ID", "businessName": null, "businessDescription": null, "dataTypeName": "NUMBER(6,0)", "techDescription": null, "internalDataType": "DOUBLE", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "DEPARTMENTS", "parentSourceName": "HRanu", "parentEntityId": 10, "parentSourceId": 2, "index": 4, "dataType": "NUMBER(6,0)", "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "EXTERNAL", "parentSourceType": "JDBC_SOURCE"}
  ]
}
```

```
Src":false,"doEncrypt":false,"key":false,"isfKey":false,"validationPattern":null,"dataEntity":null,"parentEntityName":"DEPARTMENTS","parentSourceName":"HRanu","parentEntityId":10,"parentSourceId":2,"index":2,"dataType":"NUMBER(6,0)","validationPatternIsRegex":false,"nullifPattern":null,"nullifPatternIsRegex":false,"parentEntityType":"EXTERNAL","parentSourceType":"JDBC_SOURCE"}],"fullListSize":4,"startIndex":0,"sortPropertyName":"name","isAscendingOrder":true}
```

## GET /field/v1/changedSince

Returns a collection of JSON for fields that have changed since specified time

**Note:** For version 3.4.1 in Oracle Metadata Repository environments (not PostgreSQL) either hierlds, sourcelds, or entitylds must be specified or user can provide max 1K lds

### Swagger Notes:

{changedSince} is only required parameter in format: yyyy-MM-dd HH:mm:ss.SSS"

**example:** 2018-01-30 04:25:53.868

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/changedSince/{since}

Return Type	Description
subList <Source>	JSON for collection of fields

Parameter Name	Is Optional	Description
since	Yes	Timestamp (format: "yyyy-MM-dd HH:mm:ss.SSS").
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierlds	Yes	Hierarchy id(s), comma-separated
sourcelds	Yes	Source id(s), comma-separated
entitylds	Yes	Entity ids, comma-separated

#### Sample Request:

http://<podiumhost>/podium/field/v1/changedSince?objType=EXTERNAL&since=2018-02-12 06:30:53.868

#### Sample Response (partial):

```
{
  "subList": [
    {
      "id": 8006, "version": 0, "lastUpdT": 1518462991719, "timeZoneOffset": 0, "externalData": {
        "field.max.legal.value": "", "field.min.legal.value": "", "field.min.legal.char.length": "", "field.legal.char.length": "", "field.trim.left": "", "field.sensitive": "false", "field.trim.right": ""},
        "name": "AUTO-MODEL-YEAR", "businessName": "LOAN.REDEFINES-000.AUTO-LOAN.AUTO-MODEL-YEAR", "businessDescription": null, "dataTypeName": "PIC 9(4)", "techDescription": null, "internalDataType": "INTEGER", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "LOAN", "parentSourceName": "mainframe_src_swagger_MFdocv2_tst01", "parentEntityId": 726, "parentSourceId": 530, "index": 7, "dataType": "PIC 9(4)"
      }
    }
  ]
}
```

...

## GET /field/v1/fieldInfoWithProfileDetail/{id}

Returns profile details of fields by id

### Swagger Notes:

field **{id}** is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/fieldInfoWithProfileDetail/{id}

Parameter Name	Is Optional	Description
id	No	Id of field

Return Type	Description
List <profiles>	JSON for collection of field profile details

#### Sample Request:

http://<podiumhost>/podium/field/v1/fieldInfoWithProfileDetail/67

#### Sample Response:

```
{
  "id": 67, "version": 0, "lastUpdTs": 1455084453076, "timeZoneOffset": -14400000, "name":
  "PartyID", "businessName": null, "businessDescription": "", "dataTypeName":
  "integer", "techDescription": null, "internalDataType": "INTEGER", "length": -1, "precision":
  -1, "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false,
  "doIgnore": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "Person",
  "parentSourceName": "SourceC", "parentEntityId": 11, "parentSourceId": 8, "scale": -1, "index":
  0, "dataType": "integer", "trimRight": true, "trimLeft": false, "validationPatternIsRegex":
  false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "EXTERNAL",
  "parentSourceType": "XML", "fieldTags": [], "fieldProps": [
  {
    "id": 118, "version": 0, "lastUpdTs": null, "createdUserId": null, "modifiedUserId":
    null, "timeZoneOffset": -14400000, "name": "xml.field.xsltExpr", "value": "Person/PartyID"}],
    "fieldDefs": [], "profileDetailInfo":
    {
      "id": null, "version": null, "lastUpdTs": null, "timeZoneOffset": -14400000, "minValue":
      null, "maxValue": null, "totalCount": null, "nullCount": null, "notNullCount":
      null, "surveyType": null, "surveyExcludeNullCount": null, "cardinalityExcludeNull":
      null, "deliveryId": null, "fieldName": null, "fieldId": null, "profileValues":
      [], "ownerFieldId": 67, "ownerFieldName": "PartyID", "percentNulls": null, "cardinality": null,
      "nullFraction": null, "surveyImputedNullCount": 0, "surveyIncludeNullCount":
      0, "cardinalityIncludeNull": 0}}
  ]
}
```

## GET /field/v1/getFields

Returns collections of fields ordered by name. Returned list may contain just key attributes for a field. In order to get complete information for field, additional call should be made to 'GET field/{id}' by using field id from collection.

- Provides pagination support via optional parameters
- Provides sorting support via optional parameters

### Swagger Notes:

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/getFields?type={type}&count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}

Parameter Name	Is Optional	Description
type	Yes	Option to choose if the returned collection contains only internal, external or all (both) type of fields as per specified ObjectFilterType. By default it returns external fields.
Count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
Start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataFieldBasicInfo>	JSON for collection of fields

#### Sample Call:

http://<podiumHost>/podium/field/v1/getFieldstype=EXTERNAL&count=2&start=0&sortAttr=name&sortDir=DESC

#### Sample Response:

```
{
  "subList": [
    {
      "id": 180,
      "version": 0,
      "lastUpdTs": 1477317997210,
      "timeZoneOffset": -14400000,
      "name": "workorder_status",
      "businessName": null,
      "businessDescription": null,
      "dataTypeName": "text",
      "techDescription": null,
      "internalDataType": "STRING",
      "notNull": false,
      "encryptedAtSrc": false,
      "doEncrypt": false,
      "key": false,
      "isfKey": false,
      "validationPattern": null,
      "dataEntity": null,
      "parentEntityName": "pd_workorder",
      "parentSourceName": "pdmcr_anu",
      "parentEntityId": 30,
      "parentSourceId": 4,
      "index": 11,
      "dataType": "text",
      "validationPatternIsRegex": false,
      "nullifPattern": null,
      "nullifPatternIsRegex": false,
      "parentEntityType": "EXTERNAL",
      "parentSourceType": "JDBC_SOURCE"
    },
    {
      "id": 253,
      "version": 0,
      "lastUpdTs": 1477317997596,
      "timeZoneOffset": -14400000,
      "name": "workorder_status",
      "businessName": null,
      "businessDescription": null,
      "dataTypeName": "text",
      "techDescription": null,
      "internalDataType": "STRING",
      "notNull": false,
      "encryptedAtSrc": false,
      "doEncrypt": false,
      "key": false,
      "isfKey": false,
      "validationPattern": null,
      "dataEntity": null,
      "parentEntityName": "pd_data_export_workorder",
      "parentSourceName": "pdmcr_anu",
      "parentEntityId": 37,
      "parentSourceId": 4,
      "index": 9,
      "dataType": "text",
      "validationPatternIsRegex": false,
      "nullifPattern": null,
      "nullifPatternIsRegex": false,
      "parentEntityType": "EXTERNAL",
      "parentSourceType": "JDBC_SOURCE"
    }
  ],
  "fullListSize": 1819,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendInOrder": false
}
```

## GET /field/v1/getFieldsByCrit/{targetFlds}/{searchTxt}

[with usual list params to filter data, hierlds, sourcelds, and entitylds as optional param]

Returns a list of entities that satisfy search criteria

**Note:** For version 3.4.1 in Oracle Metadata Repository environments (not PostgreSQL) either hierlds, sourcelds, or entitylds must be specified or user can provide max 1K lds

### Swagger Notes:

{targetFlds} and {searchTxt} are the only required parameters

{targetFlds} works as bit operator: For example, to GET Entities with searched for text {searchTxt} in Name(2) and Business Name(4) fields provide a {targetFlds} parameter adding both bits to get a {targetFlds} value (6).

Sort attribute options {sortAttr}: name, id, version, lastUpdTts

{start} index: Starting index for items, number of items returned is {count} [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

{hierlds}, {sourcelds} are helpful criteria to limit response

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/getFieldsByCrit/{targetFlds}/{searchTxt:..+}

Parameter Name	Is Optional	Description
targetFlds	No	An integer value that represents fields to search for search value in sources. Valid filter values: - Name (2) - Biz. Name (4) - Biz. Desc (8) - Tag (16) - All of the above (30)
searchTxt	No	Search text value to search for sources
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierlds	Yes	Hierarchy id(s), comma-separated
sourcelds	Yes	Source id(s), comma-separated
entitylds	Yes	Entity id(s), comma-separated

Return Type	Description
subList <Source>	JSON for collection of field profile details



### Sample Request:

http://<podiumhost>/podium/field/v1/getFieldsByCrit/2/sys/?objType=INTERNAL&hierIds=3

### Sample Response:

```
{
  "subList": [
    {
      "id": 256349, "version": 0, "lastUpdT": null, "timeZoneOffset": -14400000, "name": "COORDINATESYSTEM", "businessName": null, "businessDescription": null, "dataTypeName": "STRING", "techDescription": null, "internalDataType": "STRING", "length": 4000, "precision": -1, "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "doIgnore": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "WV_MIG_FRM_COORDINATES", "parentSourceName": "APEX_040200", "parentEntityId": 5707, "parentSourceId": 953, "scale": -1, "index": 4, "dataType": "STRING", "trimRight": true, "trimLeft": false, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "INTERNAL", "parentSourceType": "PODIUM_INTERNAL"},
    {
      "id": 281750, "version": 0, "lastUpdT": 1462262404492, "timeZoneOffset": -14400000, "name": "SysConId", "businessName": null, "businessDescription": null, "dataTypeName": "INTEGER", "techDescription": null, "internalDataType": "INTEGER", "length": -1, "precision": 10, "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "doIgnore": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "Actions", "parentSourceName": "TeraData_tdw", "parentEntityId": 6901, "parentSourceId": 1063, "scale": -1, "index": 11, "dataType": "INTEGER", "trimRight": true, "trimLeft": false, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "INTERNAL", "parentSourceType": "PODIUM_INTERNAL"},
    {
      "id": 282001, "version": 0, "lastUpdT": 1462262406670, "timeZoneOffset": -14400000, "name": "SysConId", "businessName": null, "businessDescription": null, "dataTypeName": "INTEGER", "techDescription": null, "internalDataType": "INTEGER", "length": -1, "precision": 10, "notNull": true, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "doIgnore": false, "validationPattern": null, "dataEntity": null, "parentEntityName": "StatesMatrix", "parentSourceName": "TeraData_tdw", "parentEntityId": 6921, "parentSourceId": 1063, "scale": -1, "index": 0, "dataType": "INTEGER", "trimRight": true, "trimLeft": false, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "parentEntityType": "INTERNAL", "parentSourceType": "PODIUM_INTERNAL"}
  ],
  "fullListSize": 3,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true
}
```

## GET /field/v1/getProperty/{id}/{propName}

Retrieves a single property value identified with given name for a field

### Swagger Notes:

Field **{id}** and **{propName}** are the only required parameters

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/field/v1/getProperty/{id}/{propName}`

Parameter Name	Is Optional	Description
id	No	Field id
propName	No	Property name for which value is to be retrieved.

Return Type	Description
String	Value for the field property.

#### Sample Call:

`http://podiumhost:8080/podium/field/v1/getProperty/249/country.type`

#### Sample Response:

AMEA

## GET /field/v1/profiles/{ids}

Returns profiles of fields by id

### Swagger Notes:

Field **{ids}** is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/profiles/{ids}

Parameter Name	Is Optional	Description
ids	No	id(s) of fields

Return Type	Description
List <profiles>	JSON for collection of field profile values

#### Sample Request:

http://<podiumhost>/podium/field/v1/profiles/7775

#### Sample Response:

```
[{"id":null,"version":null,"lastUpdTs":null,"timeZoneOffset":0,"minValue":"CUETS","maxValue":"MBNA","totalCount":449,"nullCount":0,"notNullCount":449,"surveyType":"census","surveyExcludeNullCount":449,"cardinalityExcludeNull":2,"deliveryId":"xmltest31.BookOfBusiness.20180128032821","fieldName":"BookOfBusinessCD","fieldId":7775,"metrics":{"VALIDATOR_FIELD_CONTAINS_WHITESPACE_COUNT":"0","VALIDATOR_FIELD_CONTAINS_NONASCII_COUNT":"0","VALIDATOR_FIELD_CONTAINS_CONTROL_CHAR_COUNT":"0","PROFILER_FIELD_TOTAL_COUNT":"449","PROFILER_FIELD_IS_NULL_COUNT":"0","PROFILER_FIELD_NOT_NULL_COUNT":"449","PROFILER_MIN_OBSERVED_VALUE":"CUETS","PROFILER_MAX_OBSERVED_VALUE":"MBNA","PROFILER_MIN_OBSERVED_STRING_LENGTH":"0","PROFILER_MAX_OBSERVED_STRING_LENGTH":"5","PROFILER_STRING_WITH_POSIX_PUNCTUATION_COUNT":"0","PROFILER_STRING_WITH_DIGIT_COUNT":"0","PROFILER_STRING_WITH_LOWER_CASE_COUNT":"0","PROFILER_STRING_WITH_UPPER_CASE_COUNT":"0","PROFILER_STRING_WITH_NUL_CHAR_COUNT":"0","PROFILER_STRING_WITH_SPACE_CHAR_COUNT":"0","PROFILER_STRING_WITH_ANY_WHITESPACE_COUNT":"0","PROFILER_STRING_WITH_LEADING_WHITESPACE_COUNT":"0","PROFILER_STRING_WITH_TRAILING_WHITESPACE_COUNT":"0","PROFILER_FIELD_PERCENT_NULLS":"0.0%","PROFILER_SURVEY_TYPE":"census","PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT":"449","PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY":"2"},"ownerFieldId":7775,"ownerFieldName":"BookOfBusinessCD","cardinality":"2","percentNulls":"0.0%","nullFraction":0.0,"surveyImputedNullCount":0,"surveyIncludeNullCount":449,"cardinalityIncludeNull":2}]
```

## GET /field/v1/sampleData/{entId}/{fieldIds}

Returns Sample data for fields of a single entity.

### Swagger Notes:

{entId} and {fieldIds} are the only required parameters

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/sampleData/{entId}/{fieldIds}

Parameter Name	Is Optional	Description
fieldIds	No	field ids
entId	No	entity Id
useLatestLoad	Yes	Option to specify all or latest load to be used for fetching sample data. Default is true.
sampleCount	Yes	Sample data record count. Default is 10.

Return Type	Description
DataFieldSampleData	JSON for sample data of fields

#### Sample Call:

http://podiumdatahost:8080/podium/field/v1/sampleData/1/1593

#### Sample Response:

```
{
  "fields": [
    {
      "id": 1593,
      "version": 0,
      "createdTs": 1477318008880,
      "createdBy": "podium",
      "lastUpdT": 1477318008880,
      "modifiedBy": "podium",
      "timeZoneOffset": -14400000,
      "name": "version",
      "businessName": null,
      "businessDescription": null,
      "index": 8,
      "dataTypeName": "INTEGER",
      "techDescription": null,
      "internalDataType": "INTEGER",
      "notNull": false,
      "encryptedAtSrc": false,
      "doEncrypt": false,
      "key": false,
      "isfKey": false,
      "validationPattern": null,
      "validationPatternIsRegex": false,
      "nullifPattern": null,
      "nullifPatternIsRegex": false,
      "threshold": 0.1,
      "fieldProps": [],
      "fieldDefs": [],
      "fieldTags": [],
      "enclosureIncidence": null,
      "rows": [
        {
          "columnVals": ["0"],
          "columnVals": ["0"],
          "columnVals": ["1"],
          "columnVals": ["0"],
          "columnVals": ["0"],
          "columnVals": ["0"],
          "columnVals": ["0"],
          "columnVals": ["0"]
        }
      ]
    }
  ]
}
```

#### Sample Call2:

http://<podiumhost>/podium/field/v1/sampleData/2/2?sampleCount=10&useLatestLoad=false

#### Sample Response2:

```
{
  "fields": [
    {
      "id": 10,
      "version": 0,
      "createdTs": 1515528622987,
      "createdBy": "ccuser",
      "lastUpdT": 1515528622987,
      "modifiedBy": "ccuser",
      "timeZoneOffset": 0,
      "name": "HORSEPOWER",
      "businessName": null,
      "businessDescription": null,
      "index": 4,
      "dataTypeName": "INTEGER",
      "techDescription": null,
      "internalDataType": "INTEGER",
      "notNull": false,
      "encryptedAtSrc": false,
      "doEncrypt": false,
      "key": false,
      "isfKey": false,
      "validationPattern": null,
      "validationPatternIsRegex": true,
      "nullifPattern": null,
      "nullifPatternIsRegex": false,
      "threshold": 0.1,
      "fieldProps": [],
      "fieldDefs": null,
      "fieldTags": null,
      "enclosureIncidence": null,
      "rows": [
        {
          "columnVals": ["0000"],
          "columnVals": ["00095"],
          "columnVals": ["00100"],
          "columnVals": ["00360"],
          "columnVals": ["00360"],
          "columnVals": ["00400"],
          "columnVals": ["00100"],
          "columnVals": ["00030"],
          "columnVals": ["00045"],
          "columnVals": ["00036"]
        }
      ]
    }
  ]
}
```

## POST /field/v1/schemaEvolution/addField/{entityId}

To be used (second) in pair with GET/v1/schemaEvolution/emptyField/{entityId} to add a new field to an external entity or an internal Prepare target entity. User first gets an empty field for same entity, the POST call then adds the field. Response from GET call is used as input for POST call. **NOTE:** User must update field name and datatype fields in Payload before executing POST call.

### Swagger Notes:

It is recommended not to click into 'Example Value' on the right of the Swagger interface. Delete the JSON example if it populates into payload field. 'Example Value' JSON for this call is misleading. Instead follow instructions above to get input payload.

{entityId} is the only required parameter though {field} payload is mandatory.

Entire JSON response from GET/v1/schemaEvolution/emptyField/{entityId} should be entered, the only mandatory Payload property values entered (as described below) are 'name' and 'dataTypeName' though Field Props should be reviewed and configured for the new field.

### Parameters

Parameter	Value	Description
entityId	<input type="text" value="738"/>	Entity Id for which the new field is to be added.
field	<pre> timeZoneOffset : 0, "name": "Rating", ← "businessName": null, "businessDescription": null, "index": 2, "dataTypeName": "INTEGER", ← "techDescription": null, </pre>	Payload received from GET/v1/schemaEvolution/emptyField/{entityId}

Parameter content type:

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/schemaEvolution/addField/{entityId}

Parameter Name	Is Optional	Description
entityId	No	Entity Id for which the new field is to be added.

Request Payload	Is Optional	Description
field	No	Payload received from GET/v1/schemaEvolution/emptyField/{entityId}

Return Type	Description
boolean	'true' indicates successful field addition

#### Sample Request:

http://<podiumhost>/podium/field/v1/schemaEvolution/addField/1

**Sample Request Payload:** (payload is response from GET/v1/schemaEvolution/emptyField/{entityId})

```
{
  "id": null, "version": null, "timeZoneOffset": -14400000, "name": "Mynewname", "businessName": null, "businessDescription": null, "index": 26, "dataType": "Mydatatype", "techDescription": null, "internalDataType": "INTEGER", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.trim.right", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.hive.ddl.data.type", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "enable.profiling", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.max.legal.char.length", "value": "250"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.enclosure.incidence", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "enable.validation", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.min.legal.char.length", "value": "0"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.trim.left", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.min.legal.value", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.max.legal.value", "value": null
    }
  ], "fieldDefs": [], "fieldTags": [], "enclosureIncidence": null
}
```

**Sample Response:**

```
true
```

## GET /field/v1/schemaEvolution/emptyField/{entityId}

To be used (first) in pair with POST /v1/schemaEvolution/addField/{entityId} to add a new field to an external entity or an internal Prepare target entity. User first gets an empty field for same entity. The response from GET call is used as input for POST call [POST field/v1/schemaEvolution/addField/{entityId}]. User must populate field name and datatype fields in Payload before executing POST call.

### Swagger Notes:

{entityId} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/schemaEvolution/emptyField/{entityId}

Parameter Name	Is Optional	Description
ids	No	id(s) of parent entity objects

Return Type	Description
List <Source>	JSON for collection of fields

### Sample Request:

http://<podiumhost>/podium/field/v1/schemaEvolution/emptyField/1

**Sample Response:** (Response will be the body Request Payload for 'POST /v1/schemaEvolution/addField/{entityId}')

```
{
  "id": null, "version": null, "timeZoneOffset": -14400000, "name": null, "businessName": null, "businessDescription": null, "index": 26, "dataTypeName": null, "techDescription": null, "internalDataType": "STRING", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.trim.right", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.hive.ddl.data.type", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "enable.profiling", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.max.legal.char.length", "value": "250"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.enclosure.incidence", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "enable.validation", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.min.legal.char.length", "value": "0"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.trim.left", "value": "true"
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.min.legal.value", "value": null
    },
    {
      "id": null, "version": null, "timeZoneOffset": -14400000, "name": "field.max.legal.value", "value": null
    }
  ], "fieldDefs": [], "fieldTags": [], "enclosureIncidence": null
}
```

## PUT /field/v1/updateBusinessDefs/{id}

Persists business comments (tab) for a field and returns the field with persisted and updated business definition comments or an error code if some issue was encountered during persistence.

### Swagger Notes:

field **{id}** is only required parameter though **{defs}** *payload* is mandatory.

#### Example payload:

```
[{"businessName":"ORBdept","businessDescription":"ORBIT","statusFlag":"APPROVED"}]
```

**Note:** Permissible "statusFlag" values are "DRAFT" or "APPROVED"

## REST Client tool guide:

### Resource URL:

http://<podiumHost>/podium/field/v1/updateBusinessDefs/{id}

Parameter Name	Is Optional	Description
id	No	Field id
defs	No	Collection of business definitions that are to be persisted

### Payload:

JSON representation of field business definitions to be persisted

Return Type	Description
DataField	JSON for field

### Sample Call:

http://podiumhost:8080/podium/field/v1/updateBusinessDefs/26576

### Sample Payload:

```
[{"businessName":"xyz","businessDescription":"pqrYes","statusFlag":"DRAFT"}]
```

### Sample Response:

```
{
  "id":26576,"version":3,"lastUpdTis":1457108554901,"createdTis":1456471997256,"createdUserId":null,
  "modifiedUserId":null,"timeZoneOffset":-18000000,"name":"CLOSING-PRICE",
  "businessName":"STOCKTICKER-RECORD.CLOSING-PRICE",
  "businessDescription":null,"index":2,"dataTypeName":"PIC 9999.999",
  "techDescription":null,"internalDataType":"DOUBLE","length":-1,
  "precision":7,"scale":3,"notNull":false,"encryptedAtSrc":false,"doEncrypt":false,"key":false,"isfKey":false,
  "doIgnore":false,"trimRight":true,"trimLeft":false,"validationPattern":null,"validationPatternIsRegex":false,
  "nullifPattern":null,"nullifPatternIsRegex":false,"threshold":0.1,"fieldProps":
  [{"id":60269,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"enable.validation","value":null},
  {"id":60271,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.max.legal.value","value":null},
  {"id":60272,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.trim.left","value":"true"},
  {"id":60266,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.enclosure.incidence","value":null},
  {"id":60270,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"enable.profiling","value":null},
  {"id":60273,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.trim.right","value":"true"},
  {"id":60268,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.sensitive","value":"false"},
  {"id":60267,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"name":"field.min.legal.value","value":null}],
  "fieldDefs":
  [{"id":11,"version":0,"lastUpdTis":null,"createdTis":null,"createdUserId":null,"modifiedUserId":null,
  "timeZoneOffset":-18000000,"businessName":"xyz","businessDescription":"pqrYes","statusFlag":"DRAFT"}],
  "fieldTags":
  [],
  "enclosureIncidence":null
}
```



## PUT /field/v1/updateProperties/{id}

Persists properties for a field and returns the field with persisted and updated properties or an error code if some issue was encountered during persistence.

### Swagger Notes:

It is recommended not to click into 'Example Value' on the right of the Swagger interface and/or delete the JSON example that populates into props it populates. It is recommended to get the full JSON payload as described below with call: `GET /field/v1/byId/{ids}` and make changes to that JSON response to create payload. Note that **only** the JSON 'fieldProps' including square bracket start ( [ ) to first square bracket end ( ] ) should be included in payload or the update will fail. Only property values (not names) can be updated through this call.

#### Note:

**If you do not include all the existing properties for the source (those included after 'props') they will be deleted and only the properties sent in the request will remain.** This is true for both Swagger or other REST Client tool methods.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/field/v1/updateProperties/{id}`

Parameter Name	Is Optional	Description
id	No	Field id
props	No	Collection of properties that are to be persisted

#### Payload:

JSON representation of field properties to be persisted. One way to obtain the JSON payload is to run the call: `GET /field/v1/byId/{ids}` which returns a collection of JSON for the field associated with provided id/ids. Note that only the JSON 'props' including square bracket start ( [ ) to square bracket end ( ] ) is included in payload. Only property values (not names) can be updated through this call.

Return Type	Description
DataField	JSON for field

#### Sample Call:

`http://podiumhost:8080/podium/field/v1/updateProperties/27094`

#### Sample Payload:

```
[{"id":129995,"version":0,"createdTs":1484204961524,"createdBy":"podium","lastUpdTs":1484204961524,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.max.legal.value","value":50},
{"id":129996,"version":0,"createdTs":1484204961525,"createdBy":"podium","lastUpdTs":1484204961525,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.max.legal.char.length","value":null},
{"id":129994,"version":0,"createdTs":1484204961521,"createdBy":"podium","lastUpdTs":1484204961521,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.min.legal.value","value":null},
{"id":129999,"version":0,"createdTs":1484204961530,"createdBy":"podium","lastUpdTs":1484204961530,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.min.legal.char.length","value":null},
{"id":130000,"version":0,"createdTs":1484204961532,"createdBy":"podium","lastUpdTs":1484204961532,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.trim.right","value":null},
{"id":129997,"version":0,"createdTs":1484204961527,"createdBy":"podium","lastUpdTs":1484204961527,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.trim.left","value":null},
```

```
{
  "id":129998,"version":0,"createdTs":1484204961529,"createdBy":"podium","lastUpdT":1484204961529,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.sensitive","value":"false"},
  {"id":130003,"version":0,"createdTs":1484204961537,"createdBy":"podium","lastUpdT":1484204961537,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.enclosure.incidence","value":null},
  {"id":130001,"version":0,"createdTs":1484204961534,"createdBy":"podium","lastUpdT":1484204961534,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"enable.validation","value":null},
  {"id":130002,"version":0,"createdTs":1484204961536,"createdBy":"podium","lastUpdT":1484204961536,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"enable.profiling","value":null}]
}
```

### Sample Response:

```
{
  "id":27094,"version":2,"createdTs":1484204961515,"createdBy":"podium","lastUpdT":1492034424395,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"TYPE","businessName":null,"businessDescription":null,"index":3,"dataTypeName":"BOOLEAN","techDescription":null,"internalDataType":"BOOLEAN","notNull":false,"encryptedATSrc":false,"doEncrypt":false,"key":false,"isfKey":false,"validationPattern":null,"validationPatternIsRegex":false,"nullifPattern":null,"nullifPatternIsRegex":false,"threshold":0.1,"fieldProps":
  [{"id":129995,"version":1,"createdTs":1484204961524,"createdBy":"podium","lastUpdT":1492034424401,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.max.legal.value","value":"50"},
  {"id":129996,"version":0,"createdTs":1484204961525,"createdBy":"podium","lastUpdT":1484204961525,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.max.legal.char.length","value":null},
  {"id":129994,"version":0,"createdTs":1484204961521,"createdBy":"podium","lastUpdT":1484204961521,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.min.legal.value","value":null},
  {"id":129999,"version":0,"createdTs":1484204961530,"createdBy":"podium","lastUpdT":1484204961530,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.min.legal.char.length","value":null},
  {"id":130000,"version":0,"createdTs":1484204961532,"createdBy":"podium","lastUpdT":1484204961532,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.trim.right","value":null},
  {"id":129997,"version":0,"createdTs":1484204961527,"createdBy":"podium","lastUpdT":1484204961527,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.trim.left","value":null},
  {"id":129998,"version":0,"createdTs":1484204961529,"createdBy":"podium","lastUpdT":1484204961529,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.sensitive","value":"false"},
  {"id":130003,"version":0,"createdTs":1484204961537,"createdBy":"podium","lastUpdT":1484204961537,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"field.enclosure.incidence","value":null},
  {"id":130001,"version":0,"createdTs":1484204961534,"createdBy":"podium","lastUpdT":1484204961534,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"enable.validation","value":null},
  {"id":130002,"version":0,"createdTs":1484204961536,"createdBy":"podium","lastUpdT":1484204961536,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"enable.profiling","value":null}],
  "fieldDefs":
  [{"id":2,"version":0,"createdTs":1492033845057,"createdBy":"podium","lastUpdT":1492033845057,"modifiedBy":"podium","timeZoneOffset":-14400000,"tag":"api"}],
  "enclosureIncidence":null
}
```

### Sample Call2:

<http://podiumhost:8080/podium/field/v1/updateProperties/8138>

### Sample Payload2:

```
{
  "id":64065,"version":0,"createdTs":1518723426778,"createdBy":"podium","lastUpdT":1518723426778,"modifiedBy":"podium","timeZoneOffset":0,"name":"fld.jmeter.prop1","value":"(111) 000-2223"},
  {"id":64064,"version":0,"createdTs":1518723426776,"createdBy":"podium","lastUpdT":1518723426776,"modifiedBy":"podium","timeZoneOffset":0,"name":"enable.validation","value":"true"},
  {"id":64055,"version":0,"createdTs":1518723426765,"createdBy":"podium","lastUpdT":1518723426765,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.trim.left","value":null},
}
```

```
{
  "id":64059,"version":0,"createdTs":1518723426771,"createdBy":"podium","lastUpdT":1518723426771,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.sensitive","value":"false"},
  {"id":64058,"version":0,"createdTs":1518723426770,"createdBy":"podium","lastUpdT":1518723426770,"modifiedBy":"podium","timeZoneOffset":0,"name":"enable.profiling","value":"true"},
  {"id":64057,"version":0,"createdTs":1518723426769,"createdBy":"podium","lastUpdT":1518723426769,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.min.legal.value","value":null},
  {"id":64056,"version":0,"createdTs":1518723426767,"createdBy":"podium","lastUpdT":1518723426767,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.min.legal.char.length","value":null},
  {"id":64063,"version":0,"createdTs":1518723426775,"createdBy":"podium","lastUpdT":1518723426775,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.max.legal.char.length","value":null},
  {"id":64062,"version":0,"createdTs":1518723426774,"createdBy":"podium","lastUpdT":1518723426774,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.enclosure.incidence","value":null},
  {"id":64061,"version":0,"createdTs":1518723426773,"createdBy":"podium","lastUpdT":1518723426773,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.max.legal.value","value":null},
  {"id":64060,"version":0,"createdTs":1518723426772,"createdBy":"podium","lastUpdT":1518723426772,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.trim.right","value":null}
}
```

### Sample Payload2:

```
{
  "id":8138,"version":2,"createdTs":1518723426763,"createdBy":"podium","lastUpdT":1518808505634,"modifiedBy":"podium","timeZoneOffset":0,"name":"DATA","businessName":null,"businessDescription":null,"index":1,"dataTypeName":"STRING","techDescription":null,"internalDataType":"STRING","notNull":false,"encryptedAtSrc":false,"doEncrypt":false,"key":false,"isfKey":false,"validationPattern":null,"validationPatternIsRegex":true,"nullifPattern":null,"nullifPatternIsRegex":false,"threshold":0.1,"fieldProps":
  [
    {"id":64161,"version":0,"createdTs":1518808505623,"createdBy":"podium","lastUpdT":1518808505623,"modifiedBy":"podium","timeZoneOffset":0,"name":"enable.profiling","value":"true"},
    {"id":64159,"version":0,"createdTs":1518808505619,"createdBy":"podium","lastUpdT":1518808505619,"modifiedBy":"podium","timeZoneOffset":0,"name":"enable.validation","value":"true"},
    {"id":64165,"version":0,"createdTs":1518808505628,"createdBy":"podium","lastUpdT":1518808505628,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.enclosure.incidence","value":null},
    {"id":64157,"version":0,"createdTs":1518808505616,"createdBy":"podium","lastUpdT":1518808505616,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.max.legal.char.length","value":null},
    {"id":64163,"version":0,"createdTs":1518808505626,"createdBy":"podium","lastUpdT":1518808505626,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.max.legal.value","value":null},
    {"id":64162,"version":0,"createdTs":1518808505624,"createdBy":"podium","lastUpdT":1518808505624,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.min.legal.char.length","value":null},
    {"id":64155,"version":0,"createdTs":1518808505612,"createdBy":"podium","lastUpdT":1518808505612,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.min.legal.value","value":null},
    {"id":64156,"version":0,"createdTs":1518808505615,"createdBy":"podium","lastUpdT":1518808505615,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.sensitive","value":"false"},
    {"id":64158,"version":0,"createdTs":1518808505618,"createdBy":"podium","lastUpdT":1518808505618,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.trim.left","value":null},
    {"id":64160,"version":0,"createdTs":1518808505621,"createdBy":"podium","lastUpdT":1518808505621,"modifiedBy":"podium","timeZoneOffset":0,"name":"field.trim.right","value":null},
    {"id":64164,"version":0,"createdTs":1518808505627,"createdBy":"podium","lastUpdT":1518808505627,"modifiedBy":"podium","timeZoneOffset":0,"name":"fld.jmeter.prop1","value":"(111) 000-2223"}
  ],
  "fieldDefs":[],
  "fieldTags":[],
  "enclosureIncidence":null
}
```

## PUT /field/v1/updateTags/{id}

Persists tags for a field and returns the field with persisted and updated tags or an error code if some issue was encountered during persistence.

### Swagger Notes:

field **{id}** is the only required parameter though **{tags}** payload is mandatory.

Payload example: [{"tag": "DOC"}, {"tag": "DEBIT"}]

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/updateTags/{id}

Parameter Name	Is Optional	Description
id	No	Field id
tags	No	Collection of tags that is to be persisted

#### Payload:

JSON representation of field tags to be persisted

Return Type	Description
DataField	JSON for field

#### Sample Call:

http://podiumhost:8080/podium/field/v1/updateTags/1994

#### Sample Payload:

```
[{"tag": "lmn"}, {"tag": "abc"}]
```

#### Sample Response:

```
{
  "id": 1994,
  "version": 2,
  "lastUpdT": 1457046922302,
  "createdTs": 1455098309467,
  "createdUserId": null,
  "modifiedUserId": null,
  "timeZoneOffset": -18000000,
  "name": "a",
  "businessName": null,
  "businessDescription": null,
  "index": 0,
  "dataTypeName": null,
  "techDescription": null,
  "internalDataType": "INTEGER",
  "length": -1,
  "precision": -1,
  "scale": -1,
  "notNull": false,
  "encryptedAtSrc": false,
  "doEncrypt": false,
  "key": false,
  "isfKey": false,
  "doIgnore": false,
  "trimRight": true,
  "trimLeft": false,
  "validationPattern": null,
  "validationPatternIsRegex": false,
  "nullifPattern": null,
  "nullifPatternIsRegex": false,
  "threshold": 0.1,
  "fieldProps": [],
  "fieldDefs": [],
  "enclosureIncidence": null,
  "fieldTags": [
    {
      "id": 9,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "tag": "abc"
    },
    {
      "id": 8,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "tag": "lmn"
    }
  ]
}
```

## GET /field/v1/withParentInfo/{ids}

Returns a collection of JSON for field and parent objects associated with specified field id/ids

### Swagger Notes:

field **{ids}** are the only required parameter.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/field/v1/withParentInfo/{fieldIds}

Parameter Name	Is Optional	Description
ids	No	id(s) of field objects

Return Type	Description
List <Source>	JSON for collection of field and parent objects

#### Sample Request:

http://<podiumhost>/podium/field/v1/withParentInfo/1593

#### Sample Response:

```
[{"field":
{"id":1593,"version":0,"createdTs":1477318008880,"createdBy":"podium","lastUpdT":1477318008880,"modifiedBy":"podium","timeZoneOffset":-14400000,"name":"version","businessName":null,"businessDescription":null,"index":8,"dataType":"INTEGER","techDescription":null,"internalDataType":"INTEGER","notNull":false,"encryptedAtSrc":false,"doEncrypt":false,"key":false,"isfKey":false,"validationPattern":null,"validationPatternIsRegex":false,"nullifPattern":null,"nullifPatternIsRegex":false,"threshold":0.1,"fieldProps":[],"fieldDefs":[],"fieldTags":[],"enclosureIncidence":null},"parentInfo":
{"id":174,"name":"pd_target_prop","objType":"DataEntity","parentInfo":
{"id":5,"name":"pdmcr_anu","objType":"DataSource","parentInfo":
{"id":1,"name":"DEFAULT","objType":"SourceHierarchy","parentInfo":null}}}]}
```

## POST /field/v2/updateProperty/{id}

Updates single property for a field with specified value and returns the field.

### Swagger Notes:

field **{ids}** is required parameter

**{property}** is required JSON payload to update the property providing property name and value.

**example:**

```
{"name": "xml.field.isKey", "value": "false" }
```

### REST Client tool guide:

\*Note this call changed upon v1 to v2 versioning from PUT to POST and signature parameters are now submitted through payload. Note that v1 call is still:

```
PUT /field/v1/updateProperty/{id}/{propName}/{propValue}/
```

### Resource URL:

```
http://<podiumHost>/podium/field/v2/updateProperty/{id}
```

Parameter Name	Is Optional	Description
id	No	Field id

Payload	Is Optional	Description
propName	No	Property name that is to be persisted or updated
propValue	No	Property value to be persisted or updated

Return Type	Description
DataEntity	JSON for entity

### Sample Call:

```
http://podiumhost:8080/podium/field/v2/updateProperty/7840
```

### Sample Payload:

```
{
  "externalData": {},
  "name": "field.trim.left",
  "value": "false"
}
```

### Sample Response:

```
{
  "id": 7840, "version": 4, "createdTs": 1517226571127, "createdBy": "ccuser", "lastUpdTs": 1518814081454, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "BirthDate", "businessName": null, "businessDescription": "", "index": 3, "dataTypeName": "anyType", "techDescription": null, "internalDataType": "STRING", "notNull": false, "encryptedAtSrc": false, "doEncrypt": false, "key": false, "isfKey": false, "validationPattern": null, "validationPatternIsRegex": false, "nullifPattern": null, "nullifPatternIsRegex": false, "threshold": 0.1, "fieldProps": [
    {
      "id": 64166, "version": 3, "createdTs": 1518813178204, "createdBy": "podium", "lastUpdTs": 1518814081420, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "field.trim.left", "value": "false"
    },
    {
      "id": 58469, "version": 0, "createdTs": 1517226571146, "createdBy": "ccuser", "lastUpdTs": 1517226571146, "modifiedBy": "ccuser", "timeZoneOffset": 0, "name": "xml.field.isKey", "value": "false"
    },
    {
      "id": 58470, "version": 0, "createdTs": 1517226571147, "createdBy": "ccuser", "lastUpdTs": 1517226571147, "modifiedBy": "ccuser", "timeZoneOffset": 0, "name": "xml.field.xsltExpr", "value": "TCRMPersonB0bj/BirthDate"
    }
  ], "fieldDefs": [], "fieldTags": [], "enclosureIncidence": null
}
```



## Group Controller

### GET /security/group/v1/groupsByUser

Return groups for logged in user so that a new entity (created through checkout) will be available to these groups.

#### Swagger Notes:

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/security/group/v1/groupsByUser>

Parameter Name	Is Optional	Description
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

##### Return Type:

JSON collection of group detail instance.

##### Sample Call:

<http://podiumhost:8080/podium/security/group/v1/groupsByUser>

##### Sample Response:

```
{
  "subList": [
    {
      "id": 26,
      "version": 3,
      "lastUpdTs": 1424416895001,
      "timeZoneOffset": -18000000,
      "name": "allsourcesinone"
    },
    {
      "id": 29,
      "version": 9,
      "lastUpdTs": 1424416895104,
      "timeZoneOffset": -18000000,
      "name": "amajidtest"
    },
    {
      "id": 20,
      "version": 16,
      "lastUpdTs": 1424416895183,
      "timeZoneOffset": -18000000,
      "name": "big_group"
    },
    {
      "id": 22,
      "version": 3,
      "lastUpdTs": 1424208379262,
      "timeZoneOffset": -18000000,
      "name": "bobvtest"
    },
    {
      "id": 25,
      "version": 5,
      "lastUpdTs": 1424257725612,
      "timeZoneOffset": -18000000,
      "name": "brokengroup"
    },
    {
      "id": 6,
      "version": 70,
      "lastUpdTs": 1424415967099,
      "timeZoneOffset": -18000000,
      "name": "Demo"
    },
    {
      "id": 10,
      "version": 6,
      "lastUpdTs": 1423572111653,
      "timeZoneOffset": -18000000,
      "name": "Demo2"
    },
    {
      "id": 9,
      "version": 6,
      "lastUpdTs": 1423572119129,
      "timeZoneOffset": -18000000,
      "name": "empty_group"
    },
    {
      "id": 21,
      "version": 8,
      "lastUpdTs": 1424256093553,
      "timeZoneOffset": -18000000,
      "name": "feb10"
    },
    {
      "id": 28,
      "version": 2,
      "lastUpdTs": 1424256648869,
      "timeZoneOffset": -18000000,
      "name": "feb18grp"
    },
    {
      "id": 24,
      "version": 2,
      "lastUpdTs": 1424208527338,
      "timeZoneOffset": -18000000,
      "name": "ggf"
    },
    {
      "id": 11,
      "version": 11,
      "lastUpdTs": 1424255053464,
      "timeZoneOffset": -18000000,
      "name": "Group1"
    },
    {
      "id": 12,
      "version": 12,
      "lastUpdTs": 1424255167876,
      "timeZoneOffset": -18000000,
      "name": "Group_2"
    },
    {
      "id": 13,
      "version": 7,
      "lastUpdTs": 1424260509081,
      "timeZoneOffset": -18000000,
      "name": "Group_3"
    },
    {
      "id": 27,
      "version": 2,
      "lastUpdTs": 1424257412280,
      "timeZoneOffset": -18000000,
      "name": "groupofall"
    },
    {
      "id": 8,
      "version": 6,
      "lastUpdTs": 1423572164842,
      "timeZoneOffset": -18000000,
      "name": "grp_22jan"
    },
    {
      "id": 18,
      "version": 4,
      "lastUpdTs": 1423572185699,
      "timeZoneOffset": -18000000,
      "name": "grp_22jan"
    }
  ]
}
```

```
18000000,"name":"mu_test_group"},
{"id":3,"version":12,"lastUpdT":1424260509095,"timeZoneOffset":-
18000000,"name":"my_group"},
{"id":4,"version":20,"lastUpdT":1424261864389,"timeZoneOffset":-
18000000,"name":"my_group2"},
{"id":5,"version":11,"lastUpdT":1422954563583,"timeZoneOffset":-
18000000,"name":"my_group3"},
{"id":7,"version":6,"lastUpdT":1422449165726,"timeZoneOffset":-18000000,"name":"s1_grp"},
{"id":1,"version":16,"lastUpdT":1421861643230,"timeZoneOffset":-
18000000,"name":"SUPER_GROUP"},
{"id":23,"version":3,"lastUpdT":1424208379396,"timeZoneOffset":-
18000000,"name":"tg"}], "fullListSize":23, "startIndex":0, "sortPropertyName":"name", "isAscendingOrder":true}
```



## Import Controller

### POST /metadataImport/v1/importRelationshipsAndKeys

Imports relations (Primary Key[PK] + Foreign Key[FK]) from an Excel (.xlsx) file.

#### Swagger Notes:

**{file}** mandatory payload Excel (.xlsx file) See samples below.

**{objectType}** radio-button selection is recommended to select INTERNAL and/or EXTERNAL, If neither is selected in Swagger, will default to ALL (default=ALL if using URL parameter or both radio buttons)

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/metadataImport/v1/importRelationshipsAndKeys>

Parameter Name	Is Optional	Description
file	No	Imported .xlsx file containing Parent and Child Object Names + Action
objectType	Yes	<b>Internal:</b> Create PK/FK relationship between Internal Entities <b>External:</b> Create PK/FK relationship between External Entities <b>ALL:</b> Create PK/FK relationship between both Internal and External Entities

#### Sample Call:

<http://<podiumhost:8080>/podium/metadataImport/v1/importRelationshipsAndKeys?objectType=ALL>

The following file (image) will ADD the relationship between PK ("s\_id") and FK ("sn\_id"):

	A	B	C	D	E	F	G
1	Parent Source	Parent Entity	Parent Field	Child Source	Child Entity	Child Field	Action
2	SrcDemo	ENT_1	s_id	SrcDemo	ENT_2	sn_id	ADD

The following file (image) will REMOVE the relationship between PK ("s\_id") and FK ("sn\_id"):

	A	B	C	D	E	F	G
1	Parent Source	Parent Entity	Parent Field	Child Source	Child Entity	Child Field	Action
2	SrcDemo	ENT_1	s_id	SrcDemo	ENT_2	sn_id	REMOVE

#### Return Type:

JSON with details of operation success/failure and relationships created.

#### Sample Response:

```
[ { "objectType": "Reading input resource file", "objectId": "", "name": "", "message": "Succeeded in reading input resource file", "status": "SUCCEEDED" }, { "objectType": "Validating the data extracted", "objectId": "", "name": "", "message": "Succeeded in validating the data extracted from the input resource file", "status": "SUCCEEDED" }, { "objectType": "Saving the data extracted", "objectId": "", "name": "", "message": "Succeeded in saving the data extracted from the input resource file", "status": "SUCCEEDED" } ]
```

## POST /metadataImport/v2/upload/{objectType}

Import Source, Entity, Workflow metadata or Users and Groups. It takes multipart file as input obtained from /metadataExport/ calls for Source, Entity and Workflows and an Excel (.xlsx) file for Users and Groups.

### Swagger Notes:

**\*Note:** Business Metadata Import is not supported through API

**{file}** Exported metadata zip file is mandatory payload

**{objectType}** selection from dropdown is required

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/metadataImport/v2/upload/{objectTypeString}

Parameter Name	Is Optional	Description
file	No	Exported metadata zip to be used as multipart file for source, entity and workflow.  CSV file as multipart file containing details of Users and Groups
objectTypeString	No	<b>Sources:</b> for source metadata import <b>Entities:</b> for Entities metadata import <b>Dataflows:</b> for transform/Pig graphical dataflow import <b>Workflows:</b> for workflows metadata to be imported <b>UsersAndGroups:</b> for importing groups and users from Active Directory or other environment. <b>PublishJobs:</b> for Publish jobs that have been defined in source environment

#### Return Type:

JSON with details of objects created, messages and info about any object skipped, details about invalid data if any.

#### Sample Call:

http://<podiumhost:8080>/podiumstg/metadataImport/v2/upload/Entities

For workflow import to be successful, underlying sources and entities with the same name should already be present in the system. To be able to upload the Users and groups, the multipart file needs to be in CSV format as shown here. Group names can be separated using colon ":"

firstname	lastname	email	username	password	department	group names
Sophia	Emmanuel	sophie@gmail.com	sophie\new1	podium*03	podium	ABCD
Neal	White	nealwhite@gmail.com	nealwhite@gmail.com	podium*03	test	TARGET_GRP : GROUP_444

## Lineage Controller

### POST /lineage/v1/edges

Create lineage edge of type "other". The "source", "target" and "type" fields are mandatory, "metadata" is optional, "id" should not be specified. "metadata" is additional JSON fields enclosed in curly-brackets. "source" and "target" are node identifiers. "type" must be "other". See the edges returned by /lineage/v1/graphs for examples.

#### Swagger Notes:

{requestEdge} JSON parameter is mandatory

#### REST Client tool guide:

##### Resource URL:

http://<podiumHost>/podium/lineage/v1/edges

##### Sample Payload:

```
{
  "source": "613",
  "target": "694",
  "type": "other",
  "metadata": { "icon": "facebook.png" }
}
```

##### Sample Response Body:

```
{ "id": "3997", "source": "2280", "target": "2284", "type": "other", "metadata": { "icon": "facebook.png" } }
```

**Response Code:** 201

## DELETE /lineage/v1/edges{id}

Delete lineage edge of type "other"

### Swagger Notes:

{id} parameter is mandatory, see sample response body for "POST /lineage/v1/edges"

---

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/lineage/v1/edges

#### Sample Call:

http://<podiumhost>/podium/lineage/v1/edges/3997

#### Sample Response Body:

no content

**Response Code:** 204

## GET /lineage/v1/graphs

Given a starting node, returns a lineage graph. Currently, a starting node is specified using either: (1) referenceType (ex., entity) and referenceId (ex., entity identifier); or (2) nodeId. Traversal direction and depth (in each direction) may be specified. By default, prepare dataflows and publish jobs are generated as nodes (processesAsNodes=true); they can be generated as edges by setting processesAsNodes=false.

### Swagger Notes:

{referenceType} and {referenceId} OR {nodeId} parameters are mandatory

Note: If user would like to see all lineage, lineage depth value can be set to a value of 100.

## REST Client tool guide:

### Resource URL:

<http://<podiumHost>/podium/lineage/v1/graphs>

Parameter Name	Is Optional	Description
referenceType	No	Options: entity, source, dataflow, publish_job or publish_target
referenceId	No	Identifier for reference type (e.g., entity identifier)
nodeId	*required when referenceType and referenceId are not used.	Node identifier
direction	No	Traversal direction: ancestors, descendants or both; default=both [optional]
depth	Yes	Number of edges to traverses; defaults to property lineage.depth.default (5)
processesAsNodes	Yes	Display prepare dataflows and publish jobs as nodes rather than edges: true or false; default=true

### Sample Call:

<http://<podiumhost:8080>/podium/lineage/v1/graphs?referenceType=entity&referenceId=2245&direction=both&processesAsNodes=true>

### Return Type:

JSON

### Sample Response:

```
{
  "nodes": [
    {
      "id": "1985",
      "label": "QVD_TEST",
      "reference": {
        "type": "source",
        "id": "187"
      },
      "metadata": {
        "subtype": "QVD"
      }
    },
    {
      "id": "1994",
      "label": "foo_qvd",
      "reference": {
        "type": "entity",
        "id": "2243"
      },
      "metadata": {
        "subtype": "QVD_EXTERNAL"
      }
    },
    {
      "id": "1995",
      "label": "foo_qvd",
      "reference": {
        "type": "entity",
        "id": "2245"
      },
      "metadata": {
        "subtype": "QVD_QVD_INTERNAL"
      }
    },
    {
      "id": "31879",
      "label": "qvd_prepare",
      "reference": {
        "type": "dataflow",
        "id": "3106"
      },
      "metadata": {}
    },
    {
      "id": "31880",
      "label": "prep_out",
      "reference": {
        "type": "entity",
        "id": "31966"
      },
      "metadata": {
        "subtype": "PREPARE_TARGET"
      }
    }
  ],
  "edges": [
    {
      "source": "1985",
      "target": "1994",
      "type": "load",
      "metadata": {}
    },
    {
      "source": "1994",
      "target": "1995",
      "type": "load",
      "metadata": {}
    },
    {
      "source": "31879",
      "target": "31880",
      "type": "prepare_dataflow",
      "metadata": {}
    },
    {
      "source": "1995",
      "target": "31879",
      "type": "prepare_dataflow",
      "metadata": {}
    }
  ]
}
```

## GET /lineage/v1/nodes

Given a starting node, return related nodes. The nodes may be filtered by using parameter `nodeType`. Currently, a starting node is specified using either: (1) reference type (ex. Entity) and `referenceId` (ex. entity identifier); or (2) `nodeId`. Traversal direction and depth (in each direction) may be specified.

### Swagger Notes:

`{referenceType}` and `{referenceId}` OR `{nodeId}` parameters are mandatory

Note: If user would like to see all lineage, lineage depth value can be set to a value of 100.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/lineage/v1/nodes`

Parameter Name	Is Optional	Description
<code>referenceType</code>	No	Options: entity, source, dataflow, publish_job or publish_target
<code>referenceId</code>	No	Identifier for reference type (e.g., entity identifier)
<code>nodeId</code>	*required when <code>referenceType</code> and <code>referenceId</code> are not used.	Node identifier
<code>direction</code>	No	Traversal direction: ancestors, descendants or both; default=both [optional]
<code>depth</code>	Yes	Number of edges to traverses; defaults to property <code>lineage.depth.default</code> (5)
<code>processesAsNodes</code>	Yes	Display prepare dataflows and publish jobs as nodes rather than edges: true or false; default=true

### Sample Call:

`http://<podiumhost:8080>/podium/lineage/v1/nodes?referenceType=entity&referenceId=2245&direction=both&processesAsNodes=true`

### Return Type:

JSON

### Sample Response:

```
{
  "nodes": [
    {
      "id": "1985",
      "label": "QVD_TEST",
      "reference": {
        "type": "source",
        "id": "187",
        "metadata": {
          "subtype": "QVD"
        }
      }
    },
    {
      "id": "1994",
      "label": "foo_qvd",
      "reference": {
        "type": "entity",
        "id": "2243",
        "metadata": {
          "subtype": "QVD_EXTERNAL"
        }
      }
    },
    {
      "id": "31879",
      "label": "qvd_prepare",
      "reference": {
        "type": "dataflow",
        "id": "3106",
        "metadata": {}
      }
    },
    {
      "id": "31880",
      "label": "prep_out",
      "reference": {
        "type": "entity",
        "id": "31966",
        "metadata": {
          "subtype": "PREPARE_TARGET"
        }
      }
    }
  ]
}
```

## POST /lineage/v1/nodes

Create lineage node of type "other". The "reference" and "label" fields are mandatory, "metadata" is optional, "id" should not be specified. "metadata" is additional JSON fields enclosed in curly-brackets. "metadata" may include an "icon" field whose value is an icon placed in the webapp's:

WEB-INF/resources/assets/images/lineage directory. "type" must be "other". See the nodes returned by /lineage/v1/graphs for examples.

### Swagger Notes:

**{requestNode}** JSON parameter is mandatory

---

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/lineage/v1/nodes

#### Sample Payload:

```
{ "label": "newlabel", "reference": { "type": "other", "id": "2239" }, "metadata": { "icon": "EXTERNAL" } }
```

#### Sample Response Body:

```
{ "id": "3933", "label": "newlabel", "reference": { "type": "other", "id": "2239" }, "metadata": { "icon": "EXTERNAL" } }
```

**Response Code:** 201

## **DELETE /lineage/v1/nodes/{id}**

Delete lineage node of type "other"

### **Swagger Notes:**

**{id}** parameter is mandatory, see sample response body for "POST /lineage/v1/nodes"

---

### **REST Client tool guide:**

#### **Resource URL:**

`http://<podiumHost>/podium/lineage/v1/nodes`

#### **Sample Call:**

`http://<podiumHost>/podium/lineage/v1/nodes/3933`

#### **Sample Response Body:**

no content

**Response Code:** 204



## Metadata Definitions Controller

### GET /definitions/v1/kpiMetricDefinitions

Returns the currently active metric definitions

#### Swagger Notes:

No parameters or payload.

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/definitions/v1/kpiMetricDefinitions>

Return Type	Description
JSON list	List details current metric definitions

##### Sample Call:

<http://podiumhost:8080/podium/definitions/v1/kpiMetricDefinitions>

##### Sample Response (partial):

```
[{"id":61,"version":0,"createdTs":1533572663677,"createdBy":"podium","lastUpdT":1533572663677,"modifiedBy":"podium","timeZoneOffset":0,"name":"ALL_PREPARE_LOADS","className":"com.nvs.core.service.metrics.impl.MetadataSqlMetricsCalculator","argumentString":"--query \nSELECT COUNT(1) FROM podium_core.pd_prepare_execution_workorder WHERE bundle_nid IN (SELECT bundle_nid FROM podium_core.pd_prep_package WHERE package_type = 'STORE' AND entity_id = :internalEntityId) AND delivery_time > :startTime AND delivery_time <= :endTime\n","enabled":true,"rank":1}, {"id":62,"version":0,"createdTs":1533572663682,"createdBy":"podium","lastUpdT":1533572663682,"modifiedBy":"podium","timeZoneOffset":0,"name":"FINISHED_PREPARE_LOADS","className":"com.nvs.core.service.metrics.impl.MetadataSqlMetricsCalculator","argumentString":"--query \nSELECT COUNT(1) FROM podium_core.pd_prepare_execution_workorder WHERE bundle_nid IN (SELECT bundle_nid FROM podium_core.pd_prep_package WHERE package_type = 'STORE' AND entity_id = :internalEntityId) AND workorder_status = 'FINISHED' AND delivery_time > :startTime AND delivery_time <= :endTime\n","enabled":true,"rank":1}, {"id":41,"version":0,"createdTs":1532971813102,"createdBy":"podium","lastUpdT":1532971813102,"modifiedBy":"podium","timeZoneOffset":0,"name":"NUMBER_OF_FIELDS","className":"com.nvs.core.service.metrics.impl.MetadataSqlMetricsCalculator","argumentString":"--query \nSELECT COUNT(1) FROM podium_core.pd_field WHERE entity_nid = :internalEntityId\n","enabled":true,"rank":1}, ...
```

## PUT /definitions/v1/kpiMetricDefinitions

Saves a single new metric definition or updates/disables an existing metric definition per request.

PUT /v1/kpiMetricDefinitions only allows one metric definition to be saved per call.

When a new metric definition is added, its weight is not added as many metric definitions are not used for KPI score calculation. If they are to be used for any KPI category, their weights should be explicitly defined through POST /definitions/v1/kpiMetricWeights

### Swagger Notes:

The one required payload is the KPI metric definition.

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/definitions/v1/kpiMetricDefinitions>

Payload	Is Optional	Description
kpiMetricDefinition	No	The metric definition. Metrics can be disabled by setting enabled to false.

Return Type	Description
JSON list	List details current metric definitions

#### Sample Call:

<http://podiumhost:8080/podium/definitions/v1/kpiMetricDefinitions>

#### Sample Payload:

```
{
  "id": 30,
  "version": 0,
  "createdTs": 1531918301535,
  "createdBy": "podium",
  "lastUpdTs": 1531918301535,
  "modifiedBy": "podium",
  "timeZoneOffset": 0,
  "name": "RECENCY2",
  "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
  "argumentString": "--expression \"((System.currentTimeMillis() - LAST_FINISHED_LOAD) < (LOAD_PERIOD / FINISHED_LOADS))? 1 : 0\"",
  "enabled": true,
  "rank": 2001
}
```

#### Sample Response:

```
{
  "id": 30,
  "version": 0,
  "createdTs": 1531918301535,
  "createdBy": "podium",
  "lastUpdTs": 1531918301535,
  "modifiedBy": "podium",
  "timeZoneOffset": 0,
  "name": "RECENCY2",
  "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
  "argumentString": "--expression \"((System.currentTimeMillis() - LAST_FINISHED_LOAD) < (LOAD_PERIOD / FINISHED_LOADS))? 1 : 0\"",
  "enabled": true,
  "rank": 2001
}
```

## GET /definitions/v1/kpiMetricWeights

Returns the weights of the metrics used for KPIs.

### Swagger Notes:

No parameters or payload.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/definitions/v1/kpiMetricWeights`

Return Type	Description
JSON list	List details current metric weights

#### Sample Call:

`http://podiumhost:8080/podium/definitions/v1/kpiMetricweights`

#### Sample Response (partial):

```
[{"id":1,"version":2,"createdTs":1531918301553,"createdBy":"podium","lastUpdT":1536753315073,"modifiedBy":"podium","timeZoneOffset":0,"kpiMetricDefinition":{"id":30,"version":1,"createdTs":1531918301535,"createdBy":"podium","lastUpdT":1540578312345,"modifiedBy":"podium","timeZoneOffset":0,"name":"RECENCY2","className":"com.nvs.core.service.metrics.impl.DerivedMetricsCalculator","argumentString":"--expression \"((System.currentTimeMillis() - LAST_FINISHED_LOAD) < (LOAD_PERIOD / FINISHED_LOADS)) ? 1 : 0\"","enabled":true,"rank":2001},"kpiCategory":"OPERATIONAL","weight":0.5}, {"id":2,"version":2,"createdTs":1531918301558,"createdBy":"podium","lastUpdT":1536753315067,"modifiedBy":"podium","timeZoneOffset":0,"kpiMetricDefinition":{"id":22,"version":0,"createdTs":1531918301513,"createdBy":"podium","lastUpdT":1531918301513,"modifiedBy":"podium","timeZoneOffset":0,"name":"PERCENT_FINISHED_LOADS","className":"com.nvs.core.service.metrics.impl.DerivedMetricsCalculator","argumentString":"--expression \"FINISHED_LOADS / ALL_LOADS\"","enabled":true,"rank":1001},"kpiCategory":"OPERATIONAL","weight":0.5}, {"id":5,"version":9,"createdTs":1531918301569,"createdBy":"podium","lastUpdT":1536259810369,"modifiedBy":"podium","timeZoneOffset":0,"kpiMetricDefinition":
```

## POST /definitions/v1/kpiMetricWeights

Updates the weights of given KPI metrics.

### Swagger Notes:

The one required payload is the list of KPI metric weights to be persisted or updated.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/definitions/v1/kpiMetricWeights`

Payload	Is Optional	Description
kpiMetricWeights	No	List of KPI Metric Weights

Return Type	Description
JSON list	List details current updated metric weights

#### Sample Call:

`http://podiumhost:8080/podium/definitions/v1/kpiMetricWeights`

#### Sample Payload:

```
[
  {
    "id": 9,
    "version": 35,
    "createdTs": 1531918302189,
    "createdBy": "podium",
    "lastUpdTs": 1540581996423,
    "modifiedBy": "podium",
    "timeZoneOffset": 0,
    "kpiMetricDefinition": {
      "id": 36,
      "version": 0,
      "createdTs": 1531918302178,
      "createdBy": "podium",
      "lastUpdTs": 1531918302178,
      "modifiedBy": "podium",
      "timeZoneOffset": 0,
      "name": "COMPLEMENT_PERCENT_BAD_RECORDS",
      "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
      "argumentString": "--expression \"1.0 - PERCENT_BAD_RECORDS\"",
      "enabled": true,
      "rank": 1002
    },
    "kpiCategory": "QUALITY",
    "weight": 0.8
  },
  {
    "id": 10,
    "version": 37,
    "createdTs": 1531918302193,
    "createdBy": "podium",
    "lastUpdTs": 1540581996436,
    "modifiedBy": "podium",
    "timeZoneOffset": 0,
    "kpiMetricDefinition": {
      "id": 37,
      "version": 0,
      "createdTs": 1531918302181,
      "createdBy": "podium",
      "lastUpdTs": 1531918302181,

```

```

    "modifiedBy": "podium",
    "timeZoneOffset": 0,
    "name": "COMPLEMENT_PERCENT_UGLY_RECORDS",
    "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
    "argumentString": "--expression \"1.0 - PERCENT_UGLY_RECORDS\"",
    "enabled": true,
    "rank": 1002
  },
  "kpiCategory": "QUALITY",
  "weight": 0.2
}
]

```

### Sample Response:

```

[
  {
    "id": 9,
    "version": 35,
    "createdTs": 1531918302189,
    "createdBy": "podium",
    "lastUpdTs": 1540581996423,
    "modifiedBy": "podium",
    "timeZoneOffset": 0,
    "kpiMetricDefinition": {
      "id": 36,
      "version": 0,
      "createdTs": 1531918302178,
      "createdBy": "podium",
      "lastUpdTs": 1531918302178,
      "modifiedBy": "podium",
      "timeZoneOffset": 0,
      "name": "COMPLEMENT_PERCENT_BAD_RECORDS",
      "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
      "argumentString": "--expression \"1.0 - PERCENT_BAD_RECORDS\"",
      "enabled": true,
      "rank": 1002
    },
    "kpiCategory": "QUALITY",
    "weight": 0.8
  },
  {
    "id": 10,
    "version": 37,
    "createdTs": 1531918302193,
    "createdBy": "podium",
    "lastUpdTs": 1540581996436,
    "modifiedBy": "podium",
    "timeZoneOffset": 0,
    "kpiMetricDefinition": {
      "id": 37,
      "version": 0,
      "createdTs": 1531918302181,
      "createdBy": "podium",
      "lastUpdTs": 1531918302181,
      "modifiedBy": "podium",
      "timeZoneOffset": 0,
      "name": "COMPLEMENT_PERCENT_UGLY_RECORDS",
      "className": "com.nvs.core.service.metrics.impl.DerivedMetricsCalculator",
      "argumentString": "--expression \"1.0 - PERCENT_UGLY_RECORDS\"",
      "enabled": true,
      "rank": 1002
    },
    "kpiCategory": "QUALITY",
    "weight": 0.2
  }
]

```

## Profile Statistics Controller

### GET /profile/v1/available

Returns a full list of available Field Metrics

#### Swagger Notes:

No required parameters.

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/profile/v1/available>

Return Type	Description
JSON collection	JSON with details of available Profile Statistics

##### Sample Request:

<http://<podiumHost>/podium/profile/v1/available>

##### Sample Response (partial):

```
[{"name": "PROFILER_FIELD_PERCENT_NULLS", "displayName": "Percentage
NULLs", "description": "Percentage of NULL / empty values."},
{"name": "VALIDATOR_FIELD_CONTAINS_WHITESPACE_COUNT", "displayName": "Field Contains Whitespace
Count", "description": "For a String field, the count of observations which contain
whitespace"}, {"name": "VALIDATOR_FIELD_CONTAINS_NONASCII_COUNT", "displayName": "Field Contains
Nonascii Count", "description": "For a String field, the count of observations which contain
non-US-ASCII chars"},
{"name": "VALIDATOR_FIELD_CONTAINS_CONTROL_CHAR_COUNT", "displayName": "Field Contains Control
Char Count", "description": "For a String field, the count of observations which contain ASCII
control chars or DEL"}, {"name": "PROFILER_FIELD_TOTAL_COUNT", "displayName": "Total
Count", "description": "The total number of times this field occurs. Must be the same as the
total record count."}, {"name": "PROFILER_FIELD_IS_NULL_COUNT", "displayName": "Number of
Nulls", "description": "The total number of times the field value is null.
PROFILER_FIELD_IS_NULL_COUNT + PROFILER_FIELD_NOT_NULL_COUNT = PROFILER_FIELD_TOTAL_COUNT"},
{"name": "PROFILER_FIELD_NOT_NULL_COUNT", "displayName": "Field Not Null
Count", "description": "The total number of times the field value is not null.
PROFILER_FIELD_IS_NULL_COUNT + PROFILER_FIELD_NOT_NULL_COUNT = PROFILER_FIELD_TOTAL_COUNT"},
...]
```

## GET /profile/v1/entity/{entityId}/{deliveryDate}

Returns requested profile statistic for specified entity id. Values come directly from HDFS/HIVE, missing metrics are not returned in dataset.

### Swagger Notes:

**{entityId}** and **{deliveryDate}** are required parameters. Find the "Delivery Time" in load logs and convert it from ISO format (02-15-2018 19:37:17) to Epoch time format (20180215193717). **{statNames}** can be obtained by running `GET/profile/v1/available`. Note that statNames should be entered without brackets or other control characters on multiple lines.

Parameter	Value	Description	Parameter Type	Data Type
entityId	713	ID Number	path	long
deliveryDate	20180129172826	Delivery date as specified in load log Delivery Time (07-21-2017 18:32:13 becomes 20170721183213.	path	string
statNames	PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY	Single or multiple field-level profile statistics {stat1, stat2}	query	Array[string]

Profile Statistics response is grouped in sets by Field.

Response Body

```

{
  "7867": {
    "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "301250",
    "PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY": "≈23236"
  },
  "7868": {
    "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "82077",
    "PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY": "47"
  },
  "7869": {
    "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "305000",
    "PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY": "9"
  },
  "7870": {
    "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "300617",
    "PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY": "62"
  },
  "7871": {
    "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "305000",
    "PROFILER_SURVEY_EXACT_OR_ESTIMATED_CARDINALITY": "8"
  }
}

```

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/profile/v1/{entityId}/{deliveryDate}`

Parameter Name	Is Optional	Description
entityId	No	Entity id for which field level profile statistics are requested

deliveryDate	No	Delivery date as specified in load log 'Delivery Time'
--------------	----	--

Payload	Is Optional	Description
statNames	No	Field level profile statistics to be displayed for fields contained in specified object and dataload

Return Type	Description
StatsOBJECT	Profile Statistics for specified object per load id

**Sample Request:**

http://<podiumHost>/podium/profile/v1/entity/9/20180115180835?  
statNames=PROFILER\_SURVEY\_TOTAL\_OBSERVATION\_COUNT&statNames=PROFILER\_NUMERIC\_MEAN

**Sample Response (partial):**

```
{
  "49": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3845"},
  "50": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "51": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "52": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "53": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3788"},
  "54": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "55": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3826"},
  "56": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3818"},
  "57": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3762"},
  "58": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "59": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3957"},
  "60": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "61": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "62": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "63": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "3894"},
  "64": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"},
  "65": {"PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "982131"}
}
```

**GET profile/v1/entity/{entityId}/{deliveryDate} via Postman REST client**

The screenshot shows the Postman REST client interface for a GET request. The URL is `http://jungle-podium.corp.podiumdata.com:8081/podiumstg/profile/v1/entity/9/20180115180835?statNames=PROFILER...`. The **Params** tab is selected, displaying two parameters:

Key	Value	Description
<input checked="" type="checkbox"/> statNames	PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT	
<input checked="" type="checkbox"/> statNames	PROFILER_NUMERIC_MEAN	

Below the parameters, the **Headers** tab is selected, showing one header:

Key	Value	Description
<input checked="" type="checkbox"/> Content-Type	application/json	



## GET /profile/v1/field/{fieldId}/{deliveryDate}

Returns requested profile statistic for specified field id. Metric Values come directly from HDFS/HIVE, missing metrics are not returned in dataset

### Swagger Notes:

**{fieldId}** and **{deliveryDate}** are required parameters. Find the "Delivery Time" in load logs and convert it from ISO format (02-15-2018 19:37:17) to Epoch time format (20180215193717). **{statNames}** can be obtained by running `GET/profile/v1/available`. Note that statNames should be entered without brackets or other control characters on multiple lines.

Parameter	Value	Description	Parameter Type	Data Type
fieldId	7863	ID Number	path	long
deliveryDate	20180129172826	Delivery date as specified in load log 'Delivery Time' (07-21-2017 18:32:13 becomes 20170721183213).	path	string
statNames	PROFILER_SURVEY_TYPE PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT	Single or multiple field-level profile statistics {stat1, stat2}	query	Array[string]

Profile Statistics response is grouped in sets

Response Body
<pre>{   "PROFILER_SURVEY_TYPE": "census",   "PROFILER_SURVEY_TOTAL_OBSERVATION_COUNT": "305000" }</pre>

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/profile/v1/{fieldId}/{deliveryDate}`

Parameter Name	Is Optional	Description
fieldId	No	Field id for which field level profile statistics are requested
deliveryDate	No	Delivery date as specified in load log 'Delivery Time'

Payload	Is Optional	Description
statNames	No	Field level profile statistics to be displayed for specified fields and dataload

Return Type	Description
StatsOBJECT	Profile Statistics for specified field per load id

#### Sample Request:

`http://<podiumHost>/podium/profile/v1/field/3081/20180118143549?statNames=PROFILER_MAX_OBSERVED_VALUE&statNames=PROFILER_SURVEY_TYPE`

#### Sample Response:

```
{"PROFILER_MAX_OBSERVED_VALUE": "88", "PROFILER_SURVEY_TYPE": "census"}
```

## GET profile/v1/field/{fieldId}/{deliveryDate} via Postman REST client

GET  [http://jungle-podium.corp.podiumdata.com:8081/podiumstg/profile/v1/field/3081/20180118143549?statNames=PROFILER\\_MAX\\_OBSERVED\\_VALUE&statNames=PROFILER\\_SURVEY\\_TYPE](http://jungle-podium.corp.podiumdata.com:8081/podiumstg/profile/v1/field/3081/20180118143549?statNames=PROFILER_MAX_OBSERVED_VALUE&statNames=PROFILER_SURVEY_TYPE) Params [Send](#) [Save](#)

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> statNames	PROFILER_MAX_OBSERVED_VALUE			
<input checked="" type="checkbox"/> statNames	PROFILER_SURVEY_TYPE			
New key	Value	Description		

Authorization **Headers (1)** Body Pre-request Script Tests [Code](#)

Key	Value	Description	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Content-Type	application/json				
New key	Value	Description			

**Body** Cookies (5) Headers (9) Test Results Status: 200 OK Time: 816 ms

Pretty Raw Preview

```
{"PROFILER_MAX_OBSERVED_VALUE": "88", "PROFILER_SURVEY_TYPE": "census"}
```

## Property Definition Controller

### GET /propDef/v1/example

Returns a sample property definition (with default property type String) based on optional parentObjectType which can be used as guidance for defining a new property. Applicable category members and classes can be filtered by selecting parentObjectType. Returned JSON (name, applicable classes, category members and other attributes may need updates) from this call can then be used to create a new definition with PUT /propDef/v1/save call.

#### Swagger Notes:

{parentObjectType} is the only required parameter

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/propDef/v1/{parentObject}>

Parameter Name	Is Optional	Description
parentObjectType	No	Type of parent object for which a new property may be defined. Options include DataEntity, DataSource, DataField, SourceConnection

Return Type	Description
List <Source>	JSON template for collection of properties specific to parentObjectType

##### Sample Request:

<http://<podiumHost>/podium/propDef/v1/example?parentObjectType=DataSource>

##### Sample Response:

```
{
  "id": null,
  "name": "SamplePropName",
  "displayName": "Display Name for the sample prop goes here.",
  "description": "Description for the sample prop goes here.",
  "type": "STRING",
  "defaultValue": "Default value for the property goes here. Note: the default value will be validated against the specified property type (valid datatypes: STRING, BOOLEAN, INTEGER, REGEX, ENUM)",
  "editable": true,
  "nullable": true,
  "applicableClasses": [
    "com.nvs.core.model.meta.DataSource"
  ],
  "propertyCategoryMembers": [
    "Source Props",
    "Default Source Props"
  ],
  "required": false
}
```

## PUT /propDef/v1/save

### Swagger Notes:

**{info}** JSON collection is the only required parameter. [Payload received from GET/podium/propDef/getAll provides a baseline view of properties in place and JSON helpful for updating individual properties and serve as a template for creation of new properties. Alternately, the call: PUT /propDef/v1/example returns a sample JSON template to configure for specified parentObjectType.

### PUT propDef/v1/save Request JSON

Parameter	Value	Description	Parameter Type	Data Type				
info	<pre>{   "name": "sfile",   "displayName": "new.prop.OC",   "description": "new OC prop",   "defaultValue": "",   "type": "STRING",   "required": true }</pre> <p>Parameter content type: <input type="text" value="application/json"/></p>	Property Definition JSON. GET /v1/example can be used to get example property definition. Required flag indicates if the property is to be created by default for the object. The property needs to be part of entity/field type specific category.	body	<table border="1"> <thead> <tr> <th>Model</th> <th>Example Value</th> </tr> </thead> <tbody> <tr> <td></td> <td> <pre>{   "applicableClasses": [     "string"   ],   "defaultValue": "string",   "description": "string",   "displayName": "string",   "editable": true,   "id": 0,   "name": "string",   "nullable": true,   "propertyCategoryMembers": [ </pre> </td> </tr> </tbody> </table>	Model	Example Value		<pre>{   "applicableClasses": [     "string"   ],   "defaultValue": "string",   "description": "string",   "displayName": "string",   "editable": true,   "id": 0,   "name": "string",   "nullable": true,   "propertyCategoryMembers": [ </pre>
Model	Example Value							
	<pre>{   "applicableClasses": [     "string"   ],   "defaultValue": "string",   "description": "string",   "displayName": "string",   "editable": true,   "id": 0,   "name": "string",   "nullable": true,   "propertyCategoryMembers": [ </pre>							

### PUT propDef/v1/save Response JSON

Response Body

```
{
  "id": 328,
  "name": "sfile",
  "displayName": "new.prop.OC",
  "description": "new OC prop",
  "type": "STRING",
  "defaultValue": "",
  "editable": true,
  "nullable": true,
  "applicableClasses": [
    "com.nvs.core.model.meta.DataSource"
  ],
  "propertyCategoryMembers": [
    "Source Props",
    "Default Source Props"
  ],
  "required": true
}
```

### REST Client tool guide:

Administrators must update or define and add new properties at various places in the application. The API call **PUT /propDef/v1/save** facilitates both creation/addition of a new property or update of an existing property. The call requires JSON payload. While this method provides relative flexibility and control over properties, users must take care to configure the request payload.

Several conditions must be met for payload properties to be configured correctly:

- 3 properties in Request Payload are mandatory:
  - "Name"
  - "applicableClasses"

- "propertyCategoryMembers"
- **Classes:** "applicableClasses" are high level descriptions that bucket properties into Object Classes like Field, Entity, Source, Source Connection
- **Categories:** "propertyCategoryMembers" tell the application where in the UI the property should appear.
  - "Default" object-level categories require the non-default category parameter to be passed with it (example: Enter the "Source Properties" parameter in order to pass "Default Source Properties". See Sample Payloads (1 + 3) below.
  - To indicate that value for this property is required in the UI, add a required flag ("required":true). Default value is "false" (see payload example below)
  - Note behavior of "required" flag— The "required" flag means that: if 'required' is originally defined for 3 categories as "false" (not required), then the call is run again with 2 of those categories and an additional one now "true" (required)—but the original one that wasn't updated is still 'false'.
  - Specify "defaultValue"="<value>" or "null". If a value is not provided it will default to "null"



**Classes** Value must have at least one corresponding **Categories** value!

**For example:**

If the "applicableClasses"="com.nvs.core.model.meta.DataSource"

there must be a corresponding "propertyCategoryMembers" for defining a *DataSource* Property such as "Source Props", or "Default Source Props"

**Classes and Categories Table**

Class Name [applicableClasses]	Categories [propertyCategoryMembers]
<b>Data Source</b>	
com.nvs.core.model.DataSource	Default Source Props
	Source Props
<b>Entity</b>	
com.nvs.core.model.meta.DataEntity	Default Entity Props
	Entity Props
<b>Field</b>	
com.nvs.core.model.meta.DataField	Field Props
	<i>Default Field Props, must specify source type(s):</i>
	File Field Props
	Mainframe Field Props
	JDBC Field Props
	XML Field Props
<b>Source Connection</b>	
com.nvs.core.model.meta.SourceConnection	Source Conn Props
	SQOOP Source Conn Props
	OPENCONNECTOR Source Conn Props
	KAFKA Source Conn Props
	XML Source Conn Props
	JDBC Source Conn Props
	MAINFRAME Source Conn Props
	Hadoop Source Conn Props
	FILE Source Conn Props

- **Note:** It is not permitted to remove existing class or category mapping so if a user specifies fewer categories than the original property definition, the existing classes and/or categories not listed in the update will remain.

- **Payload Hint:** Payload received from GET/podium/propDef/getAll provides JSON for properties in place and can be helpful for updating properties or as examples for creation of new properties.

Request Payload Properties	Optional	Values																																		
applicableClasses	No	<b>Options:</b> (Multiple selections entered as comma-separated values) com.nvs.core.model.meta.DataField com.nvs.core.model.meta.DataEntity com.nvs.core.model.meta.DataSource com.nvs.core.model.meta.SourceConnection																																		
propertyCategoryMembers	No	<b>Options:</b> (Multiple selections entered as comma-separated values) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th>Category</th> <th>GUI location</th> </tr> </thead> <tbody> <tr> <td>Field Props</td> <td>Selectable from Field property dropdown</td> </tr> <tr> <td>Entity Props</td> <td>Selectable from Entity property dropdown</td> </tr> <tr> <td>Source Props</td> <td>Selectable from Source property dropdown</td> </tr> <tr> <td>Default</td> <td>Generic property bucket in case property is to be invoked for API, CLU, or class not yet implemented</td> </tr> <tr> <td><i>Default Field Props, specify source type(s):</i> XML Field Props Mainframe Field Props JDBC Field Props File Field Props</td> <td>Field property panel + Add Field Popup Dropdown</td> </tr> <tr> <td>Default Entity Props</td> <td>Entity property panel</td> </tr> <tr> <td>Default Source Props</td> <td>Source property panel</td> </tr> <tr> <td>Source Conn Props</td> <td>All Source connection type property tabs</td> </tr> <tr> <td>Hadoop Source Conn Props</td> <td>Hadoop source connection property</td> </tr> <tr> <td>JDBC Source Conn Props</td> <td>JDBC source connection property</td> </tr> <tr> <td>FILE Source Conn Props</td> <td>FILE source connection property</td> </tr> <tr> <td>XML Source Conn Props</td> <td>XML source connection property</td> </tr> <tr> <td>MAINFRAME Source Conn Props</td> <td>MAINFRAME source connection property</td> </tr> <tr> <td>OPENCONNECTOR Source Conn Props</td> <td>OPENCONNECTOR source connection property</td> </tr> <tr> <td>SQOOP Source Conn Props</td> <td>SQOOP source connection property</td> </tr> <tr> <td>KAFKA Source Conn Props</td> <td>KAFKA source connection property</td> </tr> </tbody> </table>	Category	GUI location	Field Props	Selectable from Field property dropdown	Entity Props	Selectable from Entity property dropdown	Source Props	Selectable from Source property dropdown	Default	Generic property bucket in case property is to be invoked for API, CLU, or class not yet implemented	<i>Default Field Props, specify source type(s):</i> XML Field Props Mainframe Field Props JDBC Field Props File Field Props	Field property panel + Add Field Popup Dropdown	Default Entity Props	Entity property panel	Default Source Props	Source property panel	Source Conn Props	All Source connection type property tabs	Hadoop Source Conn Props	Hadoop source connection property	JDBC Source Conn Props	JDBC source connection property	FILE Source Conn Props	FILE source connection property	XML Source Conn Props	XML source connection property	MAINFRAME Source Conn Props	MAINFRAME source connection property	OPENCONNECTOR Source Conn Props	OPENCONNECTOR source connection property	SQOOP Source Conn Props	SQOOP source connection property	KAFKA Source Conn Props	KAFKA source connection property
Category	GUI location																																			
Field Props	Selectable from Field property dropdown																																			
Entity Props	Selectable from Entity property dropdown																																			
Source Props	Selectable from Source property dropdown																																			
Default	Generic property bucket in case property is to be invoked for API, CLU, or class not yet implemented																																			
<i>Default Field Props, specify source type(s):</i> XML Field Props Mainframe Field Props JDBC Field Props File Field Props	Field property panel + Add Field Popup Dropdown																																			
Default Entity Props	Entity property panel																																			
Default Source Props	Source property panel																																			
Source Conn Props	All Source connection type property tabs																																			
Hadoop Source Conn Props	Hadoop source connection property																																			
JDBC Source Conn Props	JDBC source connection property																																			
FILE Source Conn Props	FILE source connection property																																			
XML Source Conn Props	XML source connection property																																			
MAINFRAME Source Conn Props	MAINFRAME source connection property																																			
OPENCONNECTOR Source Conn Props	OPENCONNECTOR source connection property																																			
SQOOP Source Conn Props	SQOOP source connection property																																			
KAFKA Source Conn Props	KAFKA source connection property																																			
displayName	yes	Display Name, user-definable																																		
description	yes	Property Description, user-definable																																		

defaultValue	yes	Provide "<value>", default value is "null" if not provided
type	yes	Data type, default value is "STRING" if not provided
editable	yes	Default is "false" if not set to "true"
nullable	yes	Default is "false" if not set to "true"

### Resource URL:

<http://<podiumHost>/podium/propDef/v1/save>

### Sample Request:

<http://<podiumhost>/podium/propDef/v1/save>

### Sample Payload.1 (Source Property):

#### Example Payload:

```
{
  "name": "new.prop2",
  "displayName": "new.prop2",
  "description": "new source property",
  "defaultValue": "prop2",
  "type": "STRING",
  "editable": true,
  "nullable": true,
  "applicableClasses": ["com.nvs.core.model.meta.DataSource"],
  "propertyCategoryMembers": ["Default Source Props", "Source Props"], "required": true
}
```

#### Example Response:

```
{
  "id": 181,
  "name": "new.prop2",
  "displayName": "new.prop2",
  "description": "new source property",
  "type": "STRING",
  "defaultValue": "prop2",
  "editable": true,
  "nullable": true,
  "applicableClasses": [
    "com.nvs.core.model.meta.DataSource"
  ],
  "propertyCategoryMembers": [
    "Default Source Props",
    "Source Props"
  ],
  "required": true
}
```

### Sample Payload.2 (Field Property):

#### Example Payload:

```
{
  "name": "MFprop2",
  "displayName": "MFprop2",
  "description": "new default field property now required",
  "defaultValue": "prop2",
  "type": "STRING",
  "editable": true,
  "nullable": true,
  "applicableClasses": ["com.nvs.core.model.meta.DataField"],
  "propertyCategoryMembers": ["Mainframe Field Props"], "required": true
}
```

#### Example Response:

```
{
  "id": 214,
  "name": "MFprop2",
  "displayName": "MFprop2",
  "description": "new default field property now required",
  "type": "STRING",
  "defaultValue": "prop2",
  "editable": true,
  "nullable": true,
  "applicableClasses": [
    "com.nvs.core.model.meta.DataField"
  ],
  "propertyCategoryMembers": [

```

```
"Mainframe Field Props"
],
"required": true
}
```

### Sample Payload.3 (Example: OpenConnector Property):

#### Example Payload:

```
{
  "name": "prop.p1",
  "displayName": "new.prop.p1",
  "description": "new openconnector prop",
  "defaultValue": "prop.value",
  "type": "STRING",
  "editable": true,
  "nullable": true,
  "applicableClasses": ["com.nvs.core.model.meta.DataSource"],
  "propertyCategoryMembers": [
    "Default Source Props",
    "Source Props"],
  "required": true
}
```

#### Example Response:

```
{
  "id": 270,
  "name": "prop.p1",
  "displayName": "new.prop.p1",
  "description": "new openconnector prop",
  "type": "STRING",
  "defaultValue": "prop.value",
  "editable": true,
  "nullable": true,
  "applicableClasses": [
    "com.nvs.core.model.meta.DataSource"
  ],
  "propertyCategoryMembers": [
    "Default Source Props",
    "Source Props"
  ],
  "required": true
}
```



## Publish Controller

### GET /publish/v1/getJobs

Lists currently defined Publish jobs. Returned list contains just key attributes for a publish job.

#### Swagger Notes:

All parameters are optional.

#### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/publish/v1/getJobs>

Parameter Name	Is Optional	Description
count	Yes	Number of items to return. Default value is 100 and max is set to 500. If absent, all items are returned.
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'

Return Type	Description
SubList[DataPublishBasicInfo]	Returns a collection of DataPublishBasicInfo objects containing possible schedule type names.

#### Sample Request:

<http://<podiumHost>/podium/publish/v1/getJobs>

#### Sample Response:

```
{
  "subList": [
    {
      "id": 4,
      "version": 0,
      "lastUpdT": 1476902628570,
      "timeZoneOffset": -14400000,
      "name": "PublishConfigName",
      "dataSetName": "dataSetName",
      "targetName": "localfile",
      "publishState": "NOT_SCHEDULED"
    },
    {
      "id": 5,
      "version": 0,
      "lastUpdT": 1476913453382,
      "timeZoneOffset": -14400000,
      "name": "jobRecurring",
      "dataSetName": "dataSetName",
      "targetName": "localfile",
      "publishState": "SCHEDULED"
    },
    {
      "id": 2,
      "version": 1,
      "lastUpdT": 1476900742209,
      "timeZoneOffset": -14400000,
      "name": "job_nw",
      "dataSetName": "test",
      "targetName": "localfile",
      "publishState": "NOT_SCHEDULED"
    },
    {
      "id": 6,
      "version": 0,
      "lastUpdT": 1476913623072,
      "timeZoneOffset": -14400000,
      "name": "onetimeScheduledJob",
      "dataSetName": "dataSetName",
      "targetName": "localfile",
      "publishState": "UNDEFINED"
    },
    {
      "id": 1,
      "version": 3,
      "lastUpdT": 1476900724068,
      "timeZoneOffset": -14400000,
      "name": "publish",
      "dataSetName": "hrpublish",
      "targetName": "localfile",
      "publishState": "SCHEDULED"
    },
    {
      "id": 3,
      "version": 1,
      "lastUpdT": 1476913709584,
      "timeZoneOffset": -14400000,
      "name": "publishJobName",
      "dataSetName": "dataSetName",
      "targetName": "localfile",
      "publishState": "UNDEFINED"
    }
  ],
  "fullListSize": 6,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true
}
```

## GET /publish/v1/getLogs/{jobIds}

Lists logs associated with requested Publish job ids orderd by name. Returned list contains just key attributes for a publish log.

### Swagger Notes:

The only required parameter is **{jobIds}**

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/publish/v1/getLogs/{jobIds}>

Parameter Name	Is Optional	Description
jobIds	No	Number of items to return. Default value is 100 and max is set to 500. If absent, all items are returned.
count	Yes	Number of items to return. If absent, all items are returned. Default value is
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'

Return Type	Description
SubList[PublishLogsUiBean]	Returns a collection of PublishLogsUiBean objects

#### Sample Request:

<http://<podiumHost>/podium/publish/v1/getLogs/268>

#### Sample Response:

```
{
  "subList": [
    {
      "id": 389,
      "name": "RC2",
      "dataSetName": "RC2",
      "sourceName": "PODIUM_CORE_HARPS",
      "entityName": "p
d_schema_version",
      "targetName": "local",
      "executionTime": 1537943514346,
      "status": "FINISHED",
      "start
Time": 1537943515205,
      "endTime": 1537943614018,
      "infoMessage": "2018-09-26 06:31:55.205:
Starting job: PODIUM_CORE_HARPS.pd_schema_version.20180926063154\n2018-09-26 06:31:55.217:
Exporting entity:PODIUM_CORE_HARPS.pd_schema_version\n2018-09-26 06:31:55.217: Starting
shipping data.\n2018-09-26 06:31:55.225: Watching for process completion/termination.\n2018-
09-26 06:31:56.517: Finished preparing data structure for export.\n2018-09-26 06:31:56.517:
Finished preparing data for export.\n2018-09-26 06:32:55.804: Watching for process
completion/termination.\n2018-09-26 06:33:30.231: Finished shipping data.\n2018-09-26
06:33:30.232: Starting data replication.\n2018-09-26 06:33:30.233: Exporting files to target
location : file:/usr/local/podium/hammy\n2018-09-26 06:33:30.235: Copying files to target
location : file:/usr/local/podium/hammy\n2018-09-26 06:33:30.236: Existing data (if any)
will be refreshed in the target folder.\n2018-09-26 06:33:32.179: Finished data
replication.\n2018-09-26 06:33:32.179: Starting export cleanup.\n2018-09-26 06:33:34.018:
Finished export cleanup.\n2018-09-26 06:33:34.018: Finished job:
PODIUM_CORE_HARPS.pd_schema_version.20180926063154\n",
      "timeZoneOffset": 0,
      "recordCount": 264,
      "targetType": "LOCALFILE",
      "targetLocation": ""
    }
  ],
  "fullListSize": 1,
  "startIndex": 0,
  "sortPropertyName": "b.publishJob.name",
  "isAscendingOrder": true
}
```

## GET /publish/v1/getPublishJobId

Returns publish job id (or null if no publish job by that name exists) when user provides the publish job name (case insensitive lookup).

### Swagger Notes:

{publishJobName} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/getPublishJobId/v1/{publishJobName}

Parameter Name	Is Optional	Description
publishJobName	No	Publish job name

Return Type	Description
List <Name>	JSON subset of key publish attributes including name

#### Sample Request:

http://<podiumHost>/podium/publish/v1/getPublishJobId?publishJobName=RC2

#### Sample Response:

```
{
  "objectType": "Publish",
  "objectId": "268",
  "name": "RC2",
  "message": "Found RC2 with id : 268.",
  "status": "SUCCEEDED"
}
```

## GET /publish/v1/runPublishJobId

Publish job is run and publish job id is returned (if publish job by name (case insensitive lookup) exists). Publish job is not run and null is returned (if no publish job by name (case insensitive lookup) exists).

### Swagger Notes:

{publishJobName} is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/runPublishJobId/v1/{publishJobName}

Parameter Name	Is Optional	Description
publishJobName	No	Publish job name

Return Type	Description
List <Name>	JSON subset of key publish attributes including name

#### Sample Request:

http://<podiumHost>/podium/publish/v1/runPublishJob?publishJobName=RC2

#### Sample Response:

```
{
  "objectType": "Publish",
  "objectId": "268",
  "name": "RC2",
  "message": "Publish job 'RC2' with id : 268 is running.",
  "status": "SUCCEEDED"
}
```

## PUT /publish/v1/schedule/{jobId}

Schedule and/or run a publish job as per the defined schedule for publish job.

### Swagger Notes:

\*Note: This call will throw an error if the user does not explicitly enter "null" in the body field for one-time immediate publish execution.

**{jobId}** is the only required parameter though body field requires payload (see note above).  
Below Body payloads are functional in either Swagger or a REST API tool like Postman.  
Note the schedule parameters:

Follow Publish payload JSON follow structure in below **Sample Payloads:**  
For immediate execution enter "null", Schedule options are "Predefined Schedule" or "Custom Schedule"  
**scheduledJobPropsUI example:**

```
{
  "name": "schedule.type", "value": "Predefined Schedule",
  "name": "start.date", "value": "10/19/2016",
  "name": "start.time", "value": "12:00 am",
  "name": "recurring.type", "value": "Every Monday, Wednesday and Friday"
}
```

**Hint:** to find Publish Job id, select the logs for the publish job and the URL will display the job id:  
`http://<podiumhost> /podium/#/publish/publish-logs/{publish id}`

**example:**

`http://junebug.corp.podiumdata.com:8080/podium/#/publish/publish-logs/25`

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/publish/v1/schedule/{jobId}`

Parameter Name	Is Optional	Description
jobId	No	Id for publish job to be scheduled

#### Payload:

JSON representation of scheduleBean that needs to be persisted as schedule for publish job before running it.

Return Type	Description
ScheduledJobUiBean	Returns the ScheduledJobUiBean with the details about the job schedule

#### Sample Request:

`http://<podiumHost>/podium/publish/v1/schedule/5`

#### Sample payload for recurring:

```
{
  "enabled": true, "jobHandlerName": "dataPublishSvc", "id": null, "version": 1, "scheduledJobPropsUi": [
    { "name": "schedule.type", "value": "Predefined Schedule" },
    { "name": "start.date", "value": "10/19/2016" },
    { "name": "start.time", "value": "12:00 am" },
    { "name": "recurring.type", "value": "Every Monday, Wednesday and Friday" }
  ]
}
```

#### Sample payload for Cronjob

```
{
  "enabled": true, "jobHandlerName": "dataPublishSvc", "id": null, "version": null, "cronExpression": "0 0/3 * 1/1 * ? *", "scheduledJobPropsUi": [
    { "name": "schedule.type", "value": "Custom Schedule" }
  ]
}
```

#### Optional Sample payload for onetime scheduled:

```
{
  "enabled": true, "jobHandlerName": "dataPublishSvc", "id": null, "version": null, "scheduledJobProp sUi": [
    { "name": "schedule.type", "value": "Predefined Schedule" },
    { "name": "start.date", "value": "11/09/2017" },
    { "name": "start.time", "value": "12:00 pm" }
  ]
}
```

## Source Connection Controller

### GET /srcConnection/v1/byId/{ids}

Returns a collection of JSON for source connections associated with provided ids. This call provides more detailed property collections for Source Connections. GET srcConnection/v1/getConnections provides both a list for every exposed source connection in an instance of podium and key attributes.

#### Swagger Notes:

Source Connection **{ids}** is the only required parameter.

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/srcConnection/v1/byId/{ids}>

Parameter Name	Is Optional	Description
ids	No	Source connection ids

Return Type	Description
List<SourceConnectionInfo>	List of source connections

##### Sample Call:

<http://<podiumHost>/podium/srcConnection/v1/byId/1,2>

##### Sample Response:

```
[{"id":1,"version":3,"lastUpdT":1491223815913,"timeZoneOffset":0,"name":"file_OC_scp_rename
d","connectionType":"FILE","commProtocol":"OPENCONNECTOR","businessDescription":"desc added
2345","uri":"file:/","username":null,"password":"","jdbcSourceType":null,"properties":
[{"id":2211301,"version":0,"createdTs":1491223815930,"createdBy":"podium","lastUpdT":149122
3815930,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.name","value":"","display
Name":"User Name","isRequired":false,"type":"java.lang.String","sortIndex":-
1,"nullable":true},
{"id":2211303,"version":0,"createdTs":1491223815955,"createdBy":"podium","lastUpdT":1491223
815955,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.password","value":"#{poir
SryuYZZfblCCpaewJw==)","displayName":"Password","isRequired":false,"type":"java.lang.String"
,"sortIndex":-1,"nullable":true},
{"id":2211302,"version":0,"createdTs":1491223815947,"createdBy":"podium","lastUpdT":1491223
815947,"modifiedBy":"podium","timeZoneOffset":0,"name":"connection.string","value":"file:/",
"displayName":"Connection String","isRequired":true,"type":"java.lang.String","sortIndex":-
1,"nullable":true}], "entities": [], "isAssigned": false},
{"id":2,"version":0,"lastUpdT":1491212469814,"timeZoneOffset":0,"name":"file_oc_distcp","co
nnectionType":"FILE","commProtocol":"OPENCONNECTOR","businessDescription":"this is 123 !
@#%^&*
descrip","uri":"file:/","username":null,"password":"","jdbcSourceType":null,"properties"
:
[{"id":2203385,"version":0,"createdTs":1491212469825,"createdBy":"podium","lastUpdT":149121
2469825,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.name","value":"","display
Name":"User Name","isRequired":false,"type":"java.lang.String","sortIndex":-
1,"nullable":true},
{"id":2203387,"version":0,"createdTs":1491212469835,"createdBy":"podium","lastUpdT":149121
2469835,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.password","value":"#{poir
SryuYZZfblCCpaewJw==)","displayName":"Password","isRequired":false,"type":"java.lang.String"
,"sortIndex":-1,"nullable":true},
{"id":2203386,"version":0,"createdTs":1491212469830,"createdBy":"podium","lastUpdT":149121
2469830,"modifiedBy":"podium","timeZoneOffset":0,"name":"connection.string","value":"file:/",
"displayName":"Connection String","isRequired":true,"
```

## GET /srcConnection/v1/getConnections

Returns collections of source connections ordered by name. Returned list contains just key attributes for source connections. In order to get complete information for a source an additional call should be made to 'GET /srcConnection/v1/byId/{ids}' by using source connection ids from collection.

- Provides pagination support via optional parameters.
- Provides sorting support via optional parameters

### Swagger Notes:

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

## REST Client tool guide:

### Resource URL:

http://<podiumHost>/podium/srcConnection/v1/getConnections?  
count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}

Parameter Name	Is Optional	Description
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<SourceConnectionBasicInfo>	JSON for collection of source connections

### Sample Call:

http://<podiumHost>/podium/srcConnection/v1/getConnections?  
count=100&start=0&sortAttr=name&sortDir=ASC

### Sample Response:

```
{
  "subList": [
    {
      "id": 28,
      "version": 0,
      "lastUpdTs": 1501595935408,
      "timeZoneOffset": 0,
      "name": "canonicalnew_test_2_connection",
      "connectionType": "JDBC",
      "commProtocol": "JDBC",
      "businessDescription": null,
      "uri": "jdbc:hive2://donald.corp.podiumdata.com:10000/default;principal=hive/donald.corp.podiumdata.com@DUCKS.PODIUMDATA.COM"},
    {
      "id": 5,
      "version": 0,
      "lastUpdTs": 1491225885594,
      "timeZoneOffset": 0,
      "name": "FILE_LOCAL",
      "connectionType": "FILE",
      "commProtocol": "LOCALFILE",
      "businessDescription": null,
      "uri": "file:"},
    {
      "id": 2,
      "version": 0,
      "lastUpdTs": 1491212469814,
      "timeZoneOffset": 0,
      "name": "file_oc_distcp",
      "connectionType": "FILE",
      "commProtocol": "OPENCONNECTOR",
      "businessDescription": "this is 123 ! @#$%^&* descrip",
      "uri": "file:"},
    {
      "id": 1,
      "version": 3,
      "lastUpdTs": 1491223815913,
      "timeZoneOffset": 0,
      "name": "file_OC_scp_renamed",
      "connectionType": "FILE",
      "commProtocol": "OPENCONNECTOR",
      "businessDescription": "desc added 2345",
      "uri": "file:"},
    {
      "id": 32,
      "version": 0,
      "lastUpdTs": 1501595935408,
      "timeZoneOffset": 0,
      "name": "file_S3_BOM_test_connection",
      "connectionType": "FILE",
      "commProtocol": "S3",
      "businessDescription": null,
      "uri": "s3n://test.nvsvpn.com/"}],
      "fullListSize": 35,
      "startIndex": 0,
      "sortPropertyName": "name",
      "isAscendingOrder": true
    }
  ]
}
```

## Source Controller

### GET /source/v1/byParentId/{hierId}

Returns collections of sources for a given source hierarchy ordered by name. Returned list may contain just key attributes for a source. In order to get complete detailed information for a source an additional call should be made to GET source/v2/byId/{id} by using source id from response collection.

- Provides pagination support via optional parameters.
- Provides sorting support via optional parameters
- Provides option to choose only internal/external or all sources specifying ObjectFilterType

### Swagger Notes:

**{hierId}** is the only required parameter

**{type}** options are EXTERNAL(default) or INTERNAL

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index:** Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

**Hint:** to find Source Hierarchy id, expand the Source Hierarchy from the panel, Source Hierarchy Id appears in the URI after "external-source-hierarchy" segment and before the "source.name".

`junebug-podium.corp.podiumdata.com:8081/podiumstg/#/external-source-hierarchy/81TP`

`http://<podiumhost> /podium/#/publish/publish-logs/{publish id}`

**example:**

`http://junebug.corp.podiumdata.com:8080/podium/#/publish/publish-logs/25`

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/source/v1/byParent/{hierId}/?  
count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}`

Parameter Name	Is Optional	Description
hierId	No	Id for source hierarchy
type	Yes	Option to choose if the returned collection contains only internal, external or all sources as per specified ObjectFilterType. By default it returns external sources.
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name
sortDir	Yes	Sort direction. Valid values are 'A' for ascending and 'D' for descending. Default is 'A'.

Return Type	Description
SubList<DataSourceBasicInfo>	JSON for collection of sources

#### Sample Call

`http://<podiumHost>/podium/source/v1/byParentId/3/?objType=EXTERNAL`



**Sample Response:**

```
{
  "subList": [
    {
      "id": 45,
      "version": 0,
      "lastUpdTs": 1482855102004,
      "timeZoneOffset": 0,
      "name": "podium_core_doctest",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/naima/podiumstgonjungle",
      "businessName": null,
      "businessDescription": null
    }
  ],
  "fullListSize": 1,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true
}
```

## GET /source/v1/changedSince

Returns a collection of JSON for sources that have changed since specified time

### Swagger Notes:

**{changedSince}** is only required parameter in format: yyyy-MM-dd HH:mm:ss.SSS"

**example:** 2018-01-30 04:25:53.868

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/source/v1/changedSince/{since}

Return Type	Description
subList <Source>	JSON for collection of sources

Parameter Name	Is Optional	Description
since	No	Timestamp (format: "yyyy-MM-dd HH:mm:ss.SSS")
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierIds	Yes	Hierarchy id(s), comma-separated

#### Sample Request:

http://<podiumhost>/podium/source/v1/changedSince?objType=EXTERNAL&since=2016-06-22 15:25:53.868

#### Sample Response:

```
{
  "subList": [
    {
      "id": 1372, "version": 0, "lastUpdT": 1466674963088, "timeZoneOffset": -14400000,
      "name": "afs", "sourceType": "FILE", "commProtocol": "LOCALFILE", "businessName":
      null, "businessDescription": null},
    {
      "id": 1364, "version": 0, "lastUpdT": 1466668700360, "timeZoneOffset": -14400000, "name":
      "podium_core_2493", "sourceType": "POSTGRESQL", "commProtocol": "JDBC", "businessName":
      null, "businessDescription": null},
    {
      "id": 1362, "version": 0, "lastUpdT": 1466623844380, "timeZoneOffset": -14400000, "name":
      "x1ff", "sourceType": "XML", "commProtocol": "LOCALFILE", "businessName": null,
      "businessDescription": null}
  ],
  "fullListSize": 3,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true}
}
```

## PUT /source/v1/delete/{sourceIds}/{bitmask}

Returns collection of ObjectDeletionResults with details of the operation.

### Swagger Notes:

{sourceIds} and {bitMask} are the only required parameters

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/source/v1/delete/{sourceIds}/{bitMask}

Parameter Name	Is Optional	Description
sourceIds	No	Ids for sources to be deleted
bitMask	No	Integer bitmask indicating source to be cleaned up from. Please check valid option below: Remove only source: 32 Remove source along with HDFS data: 36 Remove source along with hive tables: 40 Remove source along with HDFS data and hive tables: 44

Return Type	Description
List<ObjectDeletionResult>	ObjectDeletionResult gives details about data cleanup and any failed operations.

#### Sample Call:

http://<podiumHost>/podium/source/v1/delete/4/44

#### Sample Response:

```
[{"id":4,"successfulOperations":{"REMOVE_SOURCE":"Source cleanup successful","REMOVE_HIVE_TABLES":"HIVE cleanup successful","REMOVE_HDFS_ENTRIES":"HDFS cleanup successful"},"failedOperations":{},"hasErrors":false}]
```

## GET /source/v1/getProperty/{id}/{propName}

Retrieves a single property value identified with given name for the source associated with given source Id. This call returns a blank string if no value is associated with the property.

### Swagger Notes:

Source{**id**} and {**propName**} are the only required parameters

### GET source/v1/getProperty/{id}/{propName} Sample Request

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
<b>id</b>	<input type="text" value="514"/>	Source Id.	path	long
<b>propName</b>	<input type="text" value="default.entity.level"/>	Property name for which the value is to be fetched.	path	string

### GET source/v1/getProperty/{id}/{propName} Sample Response

#### Response Body

"MANAGED"

## REST Client tool guide:

### Resource URL:

http://<podiumHost>/podium/source/v1/getProperty/{id}/{propName}/

Parameter Name	Is Optional	Description
id	No	Source id
propName	No	Property name for which value is to be retrieved.

Return Type	Description
String	Value for the source property.

### Sample Call:

http://podiumhost:8080/podium/source/v1/getProperty/25/default.direction

### Sample Response:

"North"

## GET /source/v1/getSources

Returns collections of sources ordered by name. Returned list contains just key attributes for a source. In order to get complete information for a source an additional call should be made to 'GET source/v1/byId/{ids}' by using source ids from collection.

- Provides pagination support via optional parameters.
- Provides sorting support via optional parameters
- Provides option to choose only internal or external sources using ObjectTypeFilter.

### Swagger Notes:

Sort attribute options **{sortAttr}**: name, id, version, lastUpdTs

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/source/v1/getSources?type={objType}&count={count}&start={start}&sortAttr={sortAttr}&sortDir={sortDir}`

Parameter Name	Is Optional	Description
type	Yes	Option to choose if the returned collection contains only internal, external or all sources as per specified ObjectFilterType. By default it returns external sources.
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on name.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.

Return Type	Description
SubList<DataSourceBasicInfo>	JSON for collection of sources

#### Sample Call:

`http://<podiumHost>/podium/source/v1/getSources/?type=EXTERNAL&count=2&start=0&sortAttr=name&sortDir=DESC`

#### Sample Response:

```
{
  "subList": [
    {
      "id": 14,
      "version": 0,
      "lastUpdTs": 1477591277420,
      "timeZoneOffset": -14400000,
      "name": "unsupportedTest",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 20,
      "version": 0,
      "lastUpdTs": 1477592724766,
      "timeZoneOffset": -14400000,
      "name": "unsprtd",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    }
  ],
  "fullListSize": 10,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": false
}
```

## GET /source/v1/getSourcesByCrit/{targetFlds}/{searchText}

[with usual list parameters to filter data and hierIds as optional param]

Returns a list of sources matching search criteria.

### Swagger Notes:

**{targetFlds}** and **{searchTxt}** are the only required parameters

**{targetFlds}** works as bit operator: For example, to GET Entities with searched for text **{searchTxt}** in Name(2) and Business Name(4) fields provide a **{targetFlds}** parameter adding both bits to get a **{targetFlds}** value (6).

Sort attribute options **{sortAttr}**: name, id, version, lastUpdT

**{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

**{hierIds}** are helpful criteria to limit response

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/source/v1/getSourcesByCrit/{targetFlds}/{searchTxt:.+}>

Parameter Name	Is Optional	Description
targetFlds	No	An integer value that represents fields to search for search value in sources. Valid filter values: - Name (2) - Biz. Name (4) - Biz. Desc (8) - Tag (16) - All of the above (30)
searchTxt	No	Search value to search for sources
count	Yes	Number of items to return. If absent, all items are returned. Default value is "500"
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	Yes	Attribute on which returned list is to be sorted. If none provided, return is sorted on default value 'name'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'ASC'.
objType	Yes	Object type. Valid values are EXTERNAL, INTERNAL, ALL. Default is EXTERNAL.
hierIds	Yes	Hierarchy id(s), comma-separated.

Return Type	Description
subList <Source>	JSON for collection of sources

#### Sample Request:

<http://<podiumhost>/podium/source/v1/getSourcesByCrit/2/r/?objType=EXTERNAL&hierIds=1>

#### Sample Response:

```
{
  "subList": [
    {
      "id": 2,
      "version": 0,
      "lastUpdTs": 1476889898263,
      "timeZoneOffset": -14400000,
      "name": "HRanu",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 16,
      "version": 0,
      "lastUpdTs": 1477591572450,
      "timeZoneOffset": -14400000,
      "name": "hiertoStringOvr",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 4,
      "version": 0,
      "lastUpdTs": 1477317996657,
      "timeZoneOffset": -14400000,
      "name": "pdmc_r_anu",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 8,
      "version": 0,
      "lastUpdTs": 1477576787740,
      "timeZoneOffset": -14400000,
      "name": "postgres_anu",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 20,
      "version": 0,
      "lastUpdTs": 1477592724766,
      "timeZoneOffset": -14400000,
      "name": "unsprtd",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    },
    {
      "id": 14,
      "version": 0,
      "lastUpdTs": 1477591277420,
      "timeZoneOffset": -14400000,
      "name": "unsupportedTest",
      "sourceType": "JDBC_SOURCE",
      "commProtocol": "JDBC",
      "baseDirectory": "/tmp/anu/build",
      "businessName": null,
      "businessDescription": null
    }
  ],
  "fullListSize": 6,
  "startIndex": 0,
  "sortPropertyName": "name",
  "isAscendingOrder": true
}
```

## GET /source/v2/byId/{ids}

Returns a collection of JSON for sources associated with provided id/ids.  
To obtain a list of source ids: GET /source/v1/getSources

### Swagger Notes:

Source **{ids}** is the only required parameter

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/source/v2/byId/{ids}

Return Type	Description
List<DataSource>	JSON for collection of data sources

#### Sample Request:

http://<podiumHost>/podium/source/v2/byId/218

#### Sample Response:

```
[{"id":218,"version":0,"createdTs":1516305893523,"createdBy":"ccuser","lastUpdT":1516305893523,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"podium_core_dupstest","businessName":null,"businessDescription":null,"sourceType":"JDBC_SOURCE","commProtocol":"JDBC","sourceProps":[{"id":61990,"version":0,"createdTs":1518115631918,"createdBy":"SYSTEM","lastUpdT":1518115631918,"modifiedBy":"SYSTEM","timeZoneOffset":0,"name":"default.entity.level","value":"MANAGE D"}],{"id":28582,"version":0,"createdTs":1516305893532,"createdBy":"ccuser","lastUpdT":1516305893532,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"enable.archiving","value":"true"},{"id":28583,"version":0,"createdTs":1516305893533,"createdBy":"ccuser","lastUpdT":1516305893533,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"enable.profiling","value":"true"},{"id":28585,"version":0,"createdTs":1516305893534,"createdBy":"ccuser","lastUpdT":1516305893534,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"enable.validation","value":"true"},{"id":28579,"version":0,"createdTs":1516305893529,"createdBy":"ccuser","lastUpdT":1516305893529,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"mapred.job.arguments","value":null},{"id":28586,"version":0,"createdTs":1516305893535,"createdBy":"ccuser","lastUpdT":1516305893535,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"originalSourceName","value":"podium_core"},{"id":28581,"version":0,"createdTs":1516305893531,"createdBy":"ccuser","lastUpdT":1516305893531,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"SourceDataBaseTypeName","value":"POSTGRES"},{"id":28584,"version":0,"createdTs":1516305893534,"createdBy":"ccuser","lastUpdT":1516305893534,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"use.single.receiving.mapper","value":"false"}],"sourceConnection":{"id":1,"version":0,"createdTs":1516041709733,"createdBy":"podium","lastUpdT":1516041709733,"modifiedBy":"podium","timeZoneOffset":0,"properties":[{"id":5538,"version":0,"createdTs":1516041709764,"createdBy":"podium","lastUpdT":1516041709764,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.name","value":"postgres","displayName":"User Name","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"connection username"},{"id":5537,"version":0,"createdTs":1516041709759,"createdBy":"podium","lastUpdT":1516041709759,"modifiedBy":"podium","timeZoneOffset":0,"name":"connection.string","value":"jdbc:postgressql://localhost:5432/3.1.3_schema","displayName":"Connection String","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"Connection string"},{"id":5536,"version":0,"createdTs":1516041709753,"createdBy":"podium","lastUpdT":1516041709753,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.user.password","value":"#0{xXCnkaAVeZ/kh5jxsKQLZw==}","displayName":"Password","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"connection password"},{"id":5539,"version":0,"createdTs":1516041709767,"createdBy":"podium","lastUpdT":1516041709767,"modifiedBy":"podium","timeZoneOffset":0,"name":"conn.jdbc.source.type","value":"POSTGRES SQL","displayName":"Jdbc Source"}]}
```



```
Type", "isRequired": false, "type": "java.lang.String", "sortIndex": -  
1, "nullable": true, "description": "JDBC Source  
Type"}], "name": "postgres", "businessName": null, "businessDescription": null, "connectionType": "J  
DBC", "commProtocol": "JDBC", "baseDirectory": "/tmp/podium301/onjungle", "sourceTags": []}]
```

## PUT /source/v1/updateProperties/{id}

Persists properties for a source and returns source with the persisted and updated properties or an error code if some issue was encountered during persistence.

### Swagger Notes:

It is recommended not to click into 'Example Value' on the right of the Swagger interface and/or delete the JSON example that populates into props it populates. It is recommended to get the full JSON payload as described below with call: `GET /source/v2/byId/{ids}` and make changes to that JSON response to create payload. Note that **only** the JSON 'sourceProps' including square bracket start ( [ ) to first square bracket end ( ] ) should be included in payload or the update will fail. Only property values (not names) can be updated through this call.

#### Note:

**If you do not include all existing properties for the source (those included after 'props') they will be deleted and only the properties sent in the request will remain.** This is true for both Swagger or other REST Client tool methods.

### REST Client tool guide:

#### Resource URL:

`http://<podiumHost>/podium/source/v2/updateProperties/{id}`

Parameter Name	Is Optional	Description
id	No	Source id
props	No	Collection of source properties that are to be persisted

#### Payload:

JSON representation of the collection of source properties to be persisted. One way to obtain the JSON payload is to run the call: `GET /source/v2/byId/{ids}` which returns a collection of JSON for sources associated with provided id/ids. Note that only the JSON 'props' including square bracket start ( [ ) to square bracket end ( ] ) is included in payload. Only property values (not names) can be updated through this call.

Return Type	Description
DataSource	JSON for DataSource

#### Sample Call:

`http://podiumhost:8081/podiumstg/source/v1/updateProperties/7`

#### Sample Payload:

```
[{"id":331,"version":0,"createdTs":1490956061927,"createdBy":"ccuser","lastUpdTs":1490956061927,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"pwd","value":"NEWPW#0{BKWujXAJInE6txneNeHdXw==}"},
{"id":333,"version":0,"createdTs":1490956061983,"createdBy":"ccuser","lastUpdTs":1490956061983,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"resource_uri","value":"jdbc:hive2://jungle-cloudera.corp.podiumdata.com:10000/default;auth=delegationToken"},
{"id":332,"version":0,"createdTs":1490956061946,"createdBy":"ccuser","lastUpdTs":1490956061946,"modifiedBy":"ccuser","timeZoneOffset":0,"name":"username","value":"hdfs"}]
```

#### Sample Response:

```
{"id":7,"version":2,"createdTs":1490956061898,"createdBy":"ccuser","lastUpdTs":1492021204096,"modifiedBy":"podium","timeZoneOffset":0,"properties":
[{"id":175969,"version":0,"createdTs":1492021204082,"createdBy":"podium","lastUpdTs":1492021204082,"modifiedBy":"podium","timeZoneOffset":0,"name":"pwd","value":"NEWPW#0{BKWujXAJInE6txneNeHdXw==}"}, {"displayName":"pwd","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true},
{"id":175968,"version":0,"createdTs":1492021204078,"createdBy":"podium","lastUpdTs":1492021204078,"modifiedBy":"podium","timeZoneOffset":0,"name":"username","value":"hdfs","displayName":
```

```
:"username", "isRequired": false, "type": "java.lang.String", "sortIndex": -1, "nullable": true},
{"id": 175967, "version": 0, "createdTs": 1492021204070, "createdBy": "podium", "lastUpdTs": 1492021204070, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "resource_uri", "value": "jdbc:hive2://jungle-cloudera.corp.podiumdata.com:10000/default;auth=delegationToken", "displayName": "resource_uri", "isRequired": false, "type": "java.lang.String", "sortIndex": -1, "nullable": true}], "name": "podium_core_3103", "businessName": null, "businessDescription": null, "sourceType": "PODIUM_INTERNAL", "commProtocol": "JDBC", "sourceProps": [{"id": 175969, "version": 0, "createdTs": 1492021204082, "createdBy": "podium", "lastUpdTs": 1492021204082, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "pwd", "value": "NEWPW#0{BKWujXAJ1nE6txneNeHdXw==}"}, {"id": 175967, "version": 0, "createdTs": 1492021204070, "createdBy": "podium", "lastUpdTs": 1492021204070, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "resource_uri", "value": "jdbc:hive2://jungle-cloudera.corp.podiumdata.com:10000/default;auth=delegationToken"}, {"id": 175968, "version": 0, "createdTs": 1492021204078, "createdBy": "podium", "lastUpdTs": 1492021204078, "modifiedBy": "podium", "timeZoneOffset": 0, "name": "username", "value": "hdfs"}], "baseDirectory": "/tmp/podium31reg02", "sourceTags": []}
```

## POST /source/v2/updateProperty/{id}

Updates single property identified by propName for a source with specified propValue and returns the source.

### Swagger Notes:

source {id} is required parameter

{property} is required JSON payload to update the property providing property name and value.

**example:**

```
{"name":"enable.archiving","value":"true"}
```

### POST source/v2/updateProperty/{id} Sample Request

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
id	539	Source Id.	path	long
property	<pre>{"name":"enable.archiving","value":"true"}</pre>	JSON containing Name value pair for property that is to be persisted or updated.	body	Model Example Value
Parameter content type: application/json				<pre>{   "externalData": {},   "name": "string",   "value": "string" }</pre>

### POST source/v2/updateProperty/{id} Sample Response

```
{
  "id": 64231,
  "version": 0,
  "createdTs": 1519242542379,
  "createdBy": "podium",
  "lastUpdTs": 1519242542379,
  "modifiedBy": "podium",
  "timeZoneOffset": 0,
  "name": "enable.archiving",
  "value": "true",
  "displayName": "Enable Archiving",
  "isRequired": false,
  "type": "java.lang.String",
  "sortIndex": -1,
  "nullable": true,
  "description": "whether or not inbound files should be archived"
},
```

### REST Client tool guide:

\*Note this call changed upon v1 to v2 versioning from PUT to POST and signature parameters are now submitted through payload. Note that v1 call is still executed with signature parameters:

PUT /source/v1/updateProperty/{id}/{propName}/{propValue}/

example: <podiumhost>/source/v1/updateProperty/5/Unique.Indicator/UUI/

### Resource URL:

http://<podiumHost>/podium/source/v2/updateProperty

Parameter Name	Is Optional	Description
id	No	Source id

Payload	Is Optional	Description
propName	No	Property name that is to be persisted or updated
propvalue	No	Property value to be persisted or updated
<b>example:</b> {"name":"src.jmeter.prop1","value":"(111) 000-0000"}		

Return Type	Description
DataSource	JSON for source

**Sample Call:**  
<podiumhost>/source/v2/updateProperty/526

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://jungle-podium.corp.podiumdata.com:8081/podiumstg/source/v2/updateProperty/526
- Body Type:** raw (selected), JSON (application/json)
- Body Content:**

```
1 {"name": "src.jmeter.prop1", "value": "(111) 000-0000"}
2
3
```

## PUT /source/v2/updateTags/{id}

Persists tags for a source and returns source with the persisted and updated tags or an error code if some issue was encountered during persistence.

### Swagger Notes:

It is recommended not to click into "Example Value" on the right of the Swagger interface. Delete the JSON example if it populates into payload field. The example JSON includes more properties/attributes than are required.

The only JSON payload required to update tags are the tag values.

**example:**

```
["string1","string2"]
```

source **{id}** is the only other required parameter

### REST Client tool guide:

#### Resource URL:

```
http://<podiumHost>/podium/source/v1/updateTags/{id}
```

Parameter Name	Is Optional	Description
id	No	Source id
tags	No	Collection of source tags that are to be persisted

Return Type	Description
DataSource	JSON for DataSource

#### Sample call:

```
http://<podiumHost>/podium/source/v1/updateTags/579
```

#### Sample payload:

```
[{"tag": "lmn"}, {"tag": "abc"}]
```

#### Sample Response:

```
{
  "id": 579,
  "version": 2,
  "lastUpdT": 1457040685746,
  "createdTs": 1457037214268,
  "createdUserId": null,
  "modifiedUserId": null,
  "timeZoneOffset": -18000000,
  "name": "mySource",
  "businessName": null,
  "businessDescription": null,
  "sourceType": "PODIUM_INTERNAL",
  "commProtocol": "JDBC",
  "sourceProps": [
    {
      "id": 2683,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "name": "pwd",
      "value": "#0{poirSryuYZZfbLCCpaewJw==}"
    },
    {
      "id": 2682,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "name": "resource_uri",
      "value": "jdbc:hive2://bambi.podiumdata.com:10000/default"
    },
    {
      "id": 2684,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "name": "username",
      "value": "hdfs"
    }
  ],
  "sourceTags": [
    {
      "id": 7,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "tag": "abc"
    },
    {
      "id": 6,
      "version": 0,
      "lastUpdT": null,
      "createdTs": null,
      "createdUserId": null,
      "modifiedUserId": null,
      "timeZoneOffset": -18000000,
      "tag": "lmn"
    }
  ]
}
```

## GET /source/v2/withParentInfo/{ids}

Returns a collection of JSON with Source Hierarchy information associated with specified source id/ids

### Swagger Notes:

Source **{ids}** are the only required parameter.

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/source/v2/withParentInfo/{ids}>

Parameter Name	Is Optional	Description
ids	No	Source Ids

Return Type	Description
List <Source>	JSON for collection of sources and parent object (source hierarchy)

#### Sample Request:

<http://<podiumhost>/podium/source/v2/withParentInfo/1>

#### Sample Response (partial):

```
[{"source":
{"id":1,"version":0,"createdTs":1515443750275,"createdBy":"ANONYMOUS","lastUpdT":1515443750275,"modifiedBy":"ANONYMOUS","timeZoneOffset":0,"properties":
[{"id":62011,"version":0,"createdTs":1518115631918,"createdBy":"SYSTEM","lastUpdT":1518115631918,"modifiedBy":"SYSTEM","timeZoneOffset":0,"name":"default.entity.level","value":"MANAGE D","displayName":"Default Level For New Entities","isRequired":true,"type":"java.lang.String","sortIndex":0,"nullable":false,"description":"Sets the default level for new entities"}],{"name":"USER_VIEWS","businessName":null,"businessDescription":null,"sourceType":"PODIUM_INTERNAL","commProtocol":"JDBC","sourceProps":
[{"id":62011,"version":0,"createdTs":1518115631918,"createdBy":"SYSTEM","lastUpdT":1518115631918,"modifiedBy":"SYSTEM","timeZoneOffset":0,"name":"default.entity.level","value":"MANAGE D"}],{"sourceConnection":
{"id":5,"version":0,"createdTs":1518115627888,"lastUpdT":1518115627888,"timeZoneOffset":0,"properties":
[{"id":61954,"version":0,"timeZoneOffset":0,"name":"conn.user.password","value":"#{BKWujXAJlnE6txneNeHdXw==}","displayName":"Password","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"connection password"},
{"id":61953,"version":0,"timeZoneOffset":0,"name":"conn.user.name","value":"#{VbhLwQqs3SgU86cJSIhA/w==}","displayName":"UserName","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"connection username"},
{"id":61952,"version":0,"timeZoneOffset":0,"name":"connection.string","value":"jdbc:hive2://jungle-cloudera.corp.podiumdata.com:10000/default;auth=delegationToken","displayName":"ConnectionString","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"Connection string"},
{"id":61955,"version":0,"timeZoneOffset":0,"name":"conn.jdbc.source.type","value":"HIVE","displayName":"Jdbc Source Type","isRequired":false,"type":"java.lang.String","sortIndex":-1,"nullable":true,"description":"JDBC Source Type"}],{"name":"internal_source_connection","businessName":null,"businessDescription":null,"connectionType":"JDBC","commProtocol":"JDBC"},"sourceTags":[]},"parentInfo":
{"id":2,"name":"CUSTOM","objType":"SourceHierarchy","parentInfo":null}}]}
```

## Source Hierarchy Controller

### GET /sourcehier/v1/getHiers

Returns collections of all hierarchies available in the system ordered by id.

#### Swagger Notes:

No parameter options.

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/sourcehier/v1/getHiers>

Return Type	Description
List<SourceHierarchy>	JSON for collection of source hierarchies with the child hierarchies.

##### Sample Request:

<http://<podiumHost>/podium/sourcehier/v1/getHiers>

##### Sample Response:

```
[{"id":2,"version":0,"createdTs":1476889300329,"createdBy":"ANONYMOUS","lastUpdTs":1476889300329,"modifiedBy":"ANONYMOUS","timeZoneOffset":-14400000,"name":"CUSTOM","childSourceHier":[],"dataSources":null,"sourceCount":1}, {"id":1,"version":0,"createdTs":1476889300302,"createdBy":"ANONYMOUS","lastUpdTs":1476889300302,"modifiedBy":"ANONYMOUS","timeZoneOffset":-14400000,"name":"DEFAULT","childSourceHier":[],"dataSources":null,"sourceCount":22}]
```



## Target Controller

### GET /target/v1/getTargets

Lists current predefined HDFS targets

#### Swagger Notes:

No parameter options.

---

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/target/v1/getTargets>

##### Sample Request:

<http://<podiumHost>/podium/target/v1/getTargets>

##### Sample Response:

```
[{"deserializerType":"FTP","id":6,"version":0,"lastUpdT":1517940871202,"timeZoneOffset":0,"name":"ftp2","targetType":"FTP","commProtocol":"FTP","businessName":null,"businessDescription":null,"uri":"ftp://brian.corp.podiumdata.com","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false},
{"deserializerType":"FTP","id":5,"version":1,"lastUpdT":1517940849081,"timeZoneOffset":0,"name":"ftpppp","targetType":"FTP","commProtocol":"FTP","businessName":null,"businessDescription":null,"uri":"ftp://periwinkle.corp.podiumdata.com","username":"bbishop10","password":"#{SI+N1xR0xF2wqNPsHxih6w==}","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false},
{"deserializerType":"S3","id":3,"version":0,"lastUpdT":1516035270518,"timeZoneOffset":0,"name":"jMeterLocal79","targetType":"S3","commProtocol":"S3","businessName":null,"businessDescription":null,"uri":"s3n://test.nvsvpn.com/","username":"AKIAILTC303C3TCUHI7Q","password":"#{1ylCNRchqnHuldPrtCgPJl+NoIg0Tb+3nn6pE7SCLWZf/bq1qAuM8yoy411s4EKd}","fieldDelimiter":",","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false},
{"deserializerType":"LOCALFILE","id":4,"version":0,"lastUpdT":1516039871750,"timeZoneOffset":0,"name":"local","targetType":"LOCALFILE","commProtocol":"LOCALFILE","businessName":null,"businessDescription":null,"uri":"file:/","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false}]
```

## Transformation Controller

### GET /transformation/v1/allTransformations

Loads all dataflows with key attributes.

#### Swagger Notes:

No parameter options.

---

#### REST Client tool guide:

##### Resource URL:

<http://<podiumHost>/podium/transformation/v1/allTransformations>

##### Sample Request:

<http://<podiumHost>/podium/transformation/v1/allTransformations>

##### Sample Response:

```
[{"deserializerType":"FTP","id":6,"version":0,"lastUpdTts":1517940871202,"timeZoneOffset":0,"name":"ftp2","targetType":"FTP","commProtocol":"FTP","businessName":null,"businessDescription":null,"uri":"ftp://brian.corp.podiumdata.com","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false}, {"deserializerType":"FTP","id":5,"version":1,"lastUpdTts":1517940849081,"timeZoneOffset":0,"name":"ftpppp","targetType":"FTP","commProtocol":"FTP","businessName":null,"businessDescription":null,"uri":"ftp://periwinkle.corp.podiumdata.com","username":"bbishop10","password":"#0{SI+N1xR0xF2wqNPsHxih6w==}","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false}, {"deserializerType":"S3","id":3,"version":0,"lastUpdTts":1516035270518,"timeZoneOffset":0,"name":"jMeterLocal79","targetType":"S3","commProtocol":"S3","businessName":null,"businessDescription":null,"uri":"s3n://test.nvsvpn.com/","username":"AKIAILTC303C3TCUHI7Q","password":"#0{1ylCNRchqnHuldPrtCgPjL+NoIq0Tb+3nn6pE7SclWZf/bq1qAuM8yoy411s4EKd}","fieldDelimiter":",","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false}, {"deserializerType":"LOCALFILE","id":4,"version":0,"lastUpdTts":1516039871750,"timeZoneOffset":0,"name":"local","targetType":"LOCALFILE","commProtocol":"LOCALFILE","businessName":null,"businessDescription":null,"uri":"file:/","fieldDelimiter":"\\t","recordTerminator":"\\n","targetFileFormat":"TEXTFILE","includeHeader":false}]
```

## PUT /transformation/v1/deleteWorkOrderData/{bitmask}/workOrderIds

Deletes the data for the selected execution log(s) based on the bitmask

### Swagger Notes:

{bitmask} and {workOrderIds} are required parameters.

{workOrderIds} is the log id associated with a load or Prepare job

Users can obtain workOrderIds for transformation a few different ways. One way is to run:

GET /transformation/v1/allTransformations

From Response, take transformation/{dataflowIds} of interest and enter it/them for:

GET /transformation/v1/loadAllWorkOrders/{dataflowIds}

to obtain {workOrderIds}

Obtain {workOrderIds} from GET /transformation/v1/loadAllWorkOrders/{dataflowIds}

#### Response Body

```
{
  "subList": [
    {
      "id": 274,
      "version": null,
      "lastUpdTs": 1515755362666,
      "timeZoneOffset": 0,
      "loadTime": 1515755354501,
      "startTime": 1515755354758,
      "endTime": 1515755362660,
      "status": "FINISHED",
      "orderSize": 0,
      "recordCount": 10,
      "deliveryId": null,
      "infoMessage": "2018-01-12 11:09:14.758: Starting job: DataFlow_Registered\n2018-01-12 11:09:14.759: Startir",
      "sampleRecordCount": 0,
      "loadTimeInMillis": 1515755354501,
      "name": "DataFlow_Registered",
      "bundleId": 3914
    }
  ]
}
```

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/transformation/v1/deleteWorkOrderData/{bitMask}/{workOrderIds}

Parameter Name	Is Optional	Description
workOrderIds	No	Ids for workOrders to be deleted
bitMask	No	Integer bitmask indicating workOrder object data to be cleaned up: 1 - Delete Execution Logs 4 - Delete HDFS data 8 - Drop Hive partition <b>Extended:</b> 5 - Delete Execution Logs & HDFS data 9 - Delete Execution Logs & Drop Hive partition 12 - Delete HDFS data & Drop Hive partition 13 - Delete Execution Logs & Delete HDFS data & Drop Hive partition

Return Type	Description
List<ObjectDeletionResult>	ObjectDeletionResult for workorder that describes that

what failed and what succeed

**Sample Call:**

http://<podiumHost>/podium/transformation/v1/deleteWorkOrderData/13/24,25

**Sample Response:**

```
[{"id":24,"successfulOperations":{"REMOVE_HIVE_TABLES":"Hive cleanup successful","REMOVE_WORKORDER_LOGS":"WorkOrder cleanup successful","REMOVE_HDFS_ENTRIES":"HDFS cleanup successful"},"failedOperations":{},"hasErrors":false},{"id":25,"successfulOperations":{"REMOVE_HIVE_TABLES":"Hive cleanup successful","REMOVE_WORKORDER_LOGS":"WorkOrder cleanup successful","REMOVE_HDFS_ENTRIES":"HDFS cleanup successful"},"failedOperations":{},"hasErrors":false}]
```

## PUT /transformation/v1/executeDataFlow/{dataflowId}/{engine}

Executes the dataflow associated with provided dataflowId with the selected engine, passing global parameters.

### Swagger Notes:

**{dataflowId}** and **{engine}** are required parameters. Global **{parameters}** are optional to map new parameters. **{loadDate}** and **{ptype}** are used together to append or overwrite to a successfully finished load partition or choose specific delivery time. Default is null which will apply current system time.

Note that 'loadDate' must be entered in milliseconds: one way to convert a "Delivery Time" from the prepare log to milliseconds is to convert the Delivery Time value to milliseconds with an online conversion tool ([Date to milliseconds converter](#)).

### PUT /transformation/v1/executeDataFlow/{dataflowId}/{engine} Request Example

engine	MAPREDUCE ▾	engine	path	string
dataflowId	3753	dataflowId	path	long
parameters	<pre>{"param1":"CURRA2345"}</pre>	Maps global parameters [strings] to be passed. Ex: {"key1":"value1", "key2":"value2"}	body	Model Example Value
	Parameter content type: application/json ▾			<pre>{}</pre>
bValidate	false (default) ▾	bValidate	query	boolean
loadDate	1525347875155	Delivery loadtime in milliseconds - to be specified if one wants to append or overwrite to a successfully Finished load partition or choose specific delivery time. Default is null which means current system time will be used.	query	long
pType	APPEND ▾	Load Partition type. By default, a new partition will be created.	query	string

### PUT /transformation/v1/executeDataFlow/{dataflowId}/{engine} Response Example

Response Body

```
"CPI_JOIN2.MAPREDUCE.20180222143208"
```

## REST Client tool guide:

### Resource URL:

http://<podiumHost>/podium/transformation/v1/executeDataflow/{dataflowId}/{engine}

Parameter Name	Is Optional	Description
dataflowId	No	Unique identifier associated with the workflow
engine	No	Chosen engine for workflow execution. All possible values for this attribute are: LOCAL, MAPREDUCE,

		TEZ, SPARK
parameters	Yes	Maps Global parameters [strings] to be passed {'key1':'value1', 'key2':'value2'}
bValidate	Yes	Validates before execution
loadDate	Yes	Delivery loadtime in milliseconds - to be specified if one wants to append or overwrite to a successfully finished load partition.
pType	Yes	Load Partition type. By default, a new partition will be created.

Return Type	Description
String	String uniquely identifying the work order comprising dataflowname.engineName.executionTimestamp

**Sample Call:**

`http://<podiumHost>/podium/transformation/v1/executeDataflow/3630/LOCAL`

**Sample Payload:**

`{"param1":"test", "param2":"null"}`

**Sample Response:**

`"SFDTarget02.LOCAL.20160819202313"`

## GET /transformation/v1/getDataflowId

Returns Dataflow id or null if no dataflow by that name exists when User provides the dataflow name (case insensitive lookup) as Request Payload.

### Swagger Notes:

{dataflowName} is the only required parameter.

### REST Client tool guide:

#### Resource URL:

http://<podiumHost>/podium/transformation/v1/getDataflowId/

Payload	Is Optional	Description
dataflowName	No	Provide dataflow name as Request Payload in Body

Return Type	Description
List <Source>	JSON for Dataflow, including Dataflow name

#### Sample Request:

http://<podiumhost>/podium/transformation/v1/getDataflowId?dataflowName=Simple Test Workflow

#### Sample Response:

```
{
  "objectType": "Dataflow",
  "objectId": "3006",
  "name": "Simple Test Dataflow",
  "message": "Found Simple Test Dataflow with ID: 3006",
  "status": "SUCCEEDED"
}
```

## GET /transformation/v1/loadAllWorkOrders/{dataflowIds}

Loads all workorders associated with requested workflowId/s

### Swagger Notes:

**{dataflowIds}** is the only required parameter.

Remaining parameters are for specifying response format. **{start} index**: Starting index for items, number of items returned is **{count}** [ex. first request may specify return 0 (start) to 99 (count), then second request may specify to begin the return request at 100 (start) to 199 (count is still 99), etc.

### REST Client tool guide:

#### Resource URL:

<http://<podiumHost>/podium/transformation/v1/loadAllWorkOrders/{dataflowIds}>

Parameter Name	Is Optional	Description
dataflowIds	No	List of Unique identifier(s) associated with the dataflow
count	Yes	Number of items to return. Default and Max is set to 500. (If absent all items returned are capped at 500.)
start	Yes	Starting index for items. If none provided, zero is assumed as index.
sortAttr	No	Attribute on which returned list is to be sorted. Best suitable value is 'loadTime'.
sortDir	Yes	Sort direction. Valid values are 'ASC' for ascending and 'DESC' for descending. Default is 'DESC'.

Return Type	Description
SubList<PrepareWorkOrderUiBean>	Item sub list containing dataflow execution info logs.

#### Sample Call:

<http://<podiumHost>/podium/transformation/v1/loadAllWorkOrders/4247/?count=100&start=0&sortAttr=loadTime&sortDir=ASC>

#### Sample Response:

```
{
  "subList": [
    {
      "id": 591,
      "version": null,
      "lastUpdTis": 1457106569267,
      "timeZoneOffset": -18000000,
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